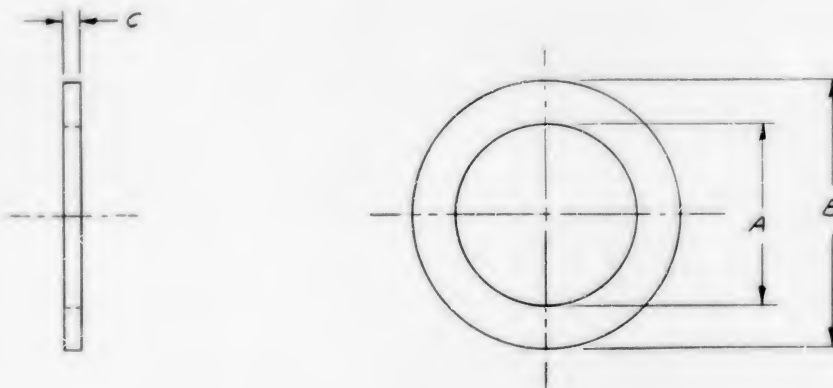


PART NO.	DIM. A		DIM. B		DIM. C	
	MAX	MIN	MAX	MIN	MAX	MIN
- 1	.208	.203	.299	.295	.022	.018
- 2	.154	.146	.312	.302	.034	.026
- 3	.181	.176	.299	.295	.022	.018
- 4	.164	.158	.292	.288	.022	.018
- 5	.145	.138	.150	.1475	.034	.026



1. MAT'L 303 CRES CLASS 303 COND A PER QQ-S-763
- ALT: 302 CRES CLASS 303 COND A PER QQ-S-763
2. PASSIVATE PER MIL-F-14072: FINISH E300 TYPE I
3. SURFACE QUALITY #3
4. REMOVE ALL BURRS & SHARP EDGES
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327

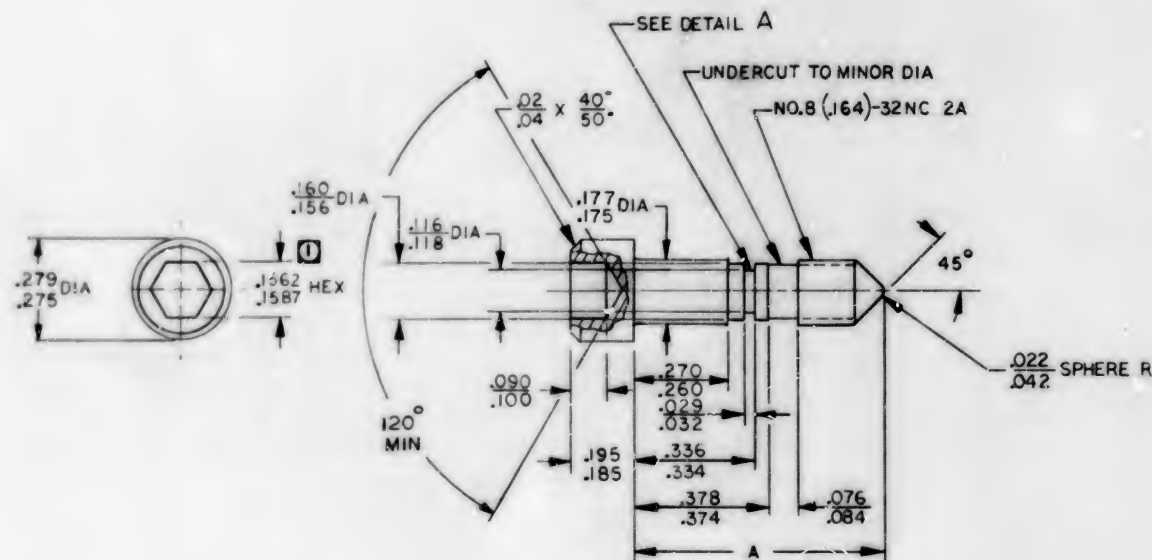
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		NO.
LIST OF MATERIALS				
NIT INSTRUMENTATION LAB Cambridge, Mass REG. NO. _____ CONTRACT _____		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>E. McNamee</i> DATE <i>Aug 63</i> CHECKED <i>[Signature]</i> <i>Aug 63</i> APPROVAL <i>[Signature]</i> <i>Aug 20 1963</i> APPROVAL <i>[Signature]</i> <i>Aug 21 1963</i>		WASHER, FLAT		
NASA APPROVAL <i>[Signature]</i> <i>8/21</i> MIT APPROVAL _____ MIT APPROVAL <i>[Signature]</i> <i>8/21/63</i>		CODE IDENT NO. _____	SIZE C	NASA DRAWING NO. 1004546
		SCALE <i>10/11</i>	WT	SHEET <i>1</i> OF <i>1</i>

[illegible]

6	004579
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REVISIONS 5074

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 05050	12/2/94	W
B	REVISED PER TDRR 05189	12/2/94	W
C	REVISED PER TDRR 05271	12/2/94	W
D	REVISED PER TDRR 07258 DROD RLY. CHK ONLY APPD	12/2/94	W
E	REVISED PER TDRR 08013 DROD RLY. CHK RLY	12/2/94	W
F	REVISED PER TDRR13223 DROD RLY. CHK ONLY APPD	12/2/94	W
G	REVISED PER TDRR 23440 DROD RLY. CHK ONLY APPD	12/2/94	W



DETAIL A
SCALE 10/1

PART NO.	DIM A ±.005
1004579-1	.700
1004579-2	.875
1004579-3	.800

NOTES

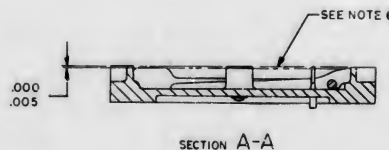
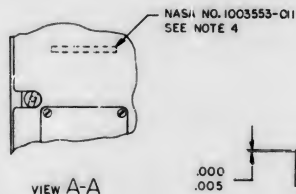
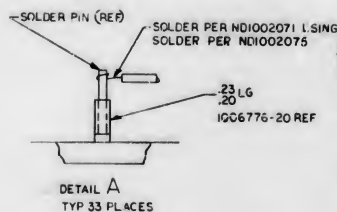
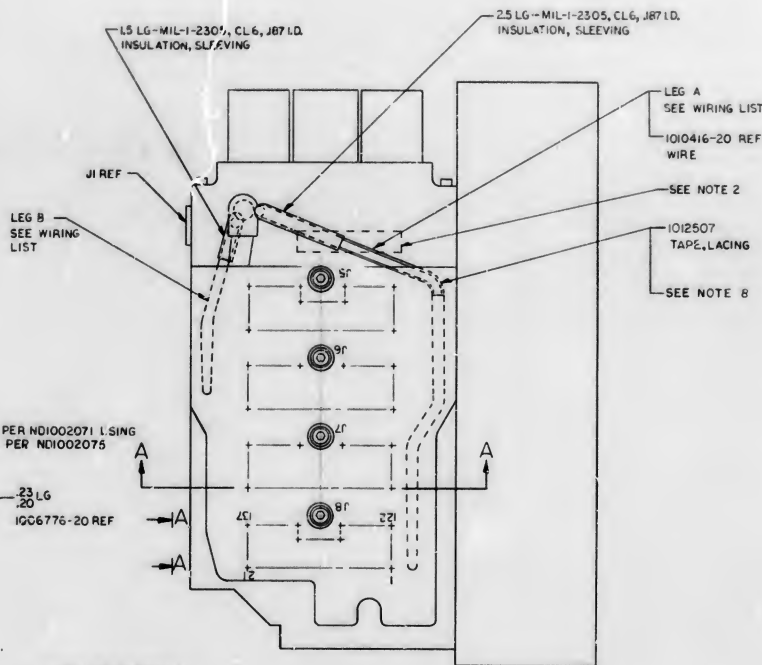
1. MATL: 410 CRES, CLASS 410, COND. A
PER QQ-S-763 (HEAD TO BE COLD FORMED)
2. REMOVE BURRS AND SHARP EDGES
3. PASSIVATE PER MIL-F-14072,
FINISH E 300, TYPE I
4. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-D-70327
5. **1** DIMENSION CONTROLLED BY ICD NMOI-C1002-116
6. CONCENTRICITY: ALL DIAMETERS MUST
BE WITHIN .005 T.I.R.
7. IDENTIFY PER ND 1002019

1003133	1003184
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
 ± ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL
 SEE NOTE 1
HEAT TREATMENT
 RC 36-43
FINAL FINISH
 SEE NOTE 3

QTY REQC	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		PKG NO
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB Cambridge, Mass		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DWN. NO. <i>1004579</i> CONTRACT <i>1004579</i>		SCREW, JACKING		
DRAWN <i>W. H. H.</i> DATE <i>10/1/63</i>				
CHECKED <i>W. H. H.</i> BY <i>W. H. H.</i>				
APPROVAL <i>W. H. H.</i>				
APPROVAL <i>W. H. H.</i>		NASA APPROVAL <i>W. H. H.</i>		
MIT APPROVAL <i>W. H. H.</i>		CODE IDENT NO. _____	SIZE C	NASA DRAWING NO. 1004579
MIT APPROVAL <i>W. H. H.</i>		SCALE <i>4/1</i>	WT	SHEET <i>1</i> OF <i>1</i>

WIRING LIST					
LEG A			LEG B		
FROM	WIRE	TO	FROM	WIRE	TO
J1-123	1010416-20	J8-28	J1-102	1010416-20	J5-44
J1-124		J8-31	J1-103		J5-43
J1-125		J8-127	J1-104		J5-64
J1-126		J8-40	J1-107		J6-28
J1-127		J8-89	J1-108		J6-111
J1-128		J8-89	J1-109		J6-127
J1-129		J8-89	J1-110		J6-48
J1-130		J8-107	J1-111		J6-126
J1-131		J8-23	J1-112		J6-89
J1-132		J8-3	J1-113		J6-88
J1-133		J8-1	J1-114		J6-107
J1-134		J8-123	J1-115		J6-23
J1-135		J8-87	J1-116		J6-3
J1-136		J8-22	J1-117		J6-1
J1-137	1010416-20	J8-85	J1-118		J6-123
			J1-119		J6-87
			J1-120		J6-22
			J1-121		J6-85



NOTES

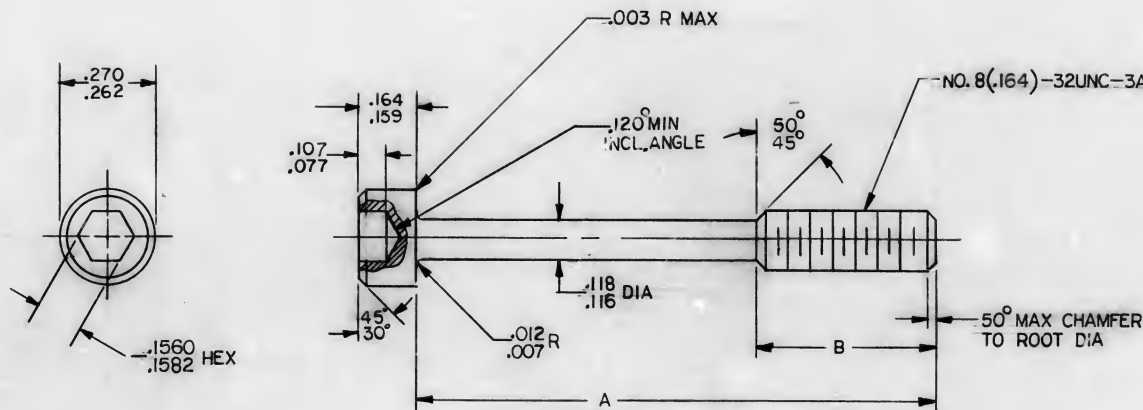
1. MAKE FROM 1003540 MDI
2. SECURE HARNESS IN INDICATED AREA BY STAKING PER ND1002004 TYPE Y
3. REF RIB 0104032
4. RE-IDENTIFY WITH PART NO. 1003553-011 IN ACCORDANCE WITH RIB0104032
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
6. ENCAPSULATE INDICATED AREA PER ND1002217
7. REF FOLLOWING TOOLS WHEN REWORKING J1 CONNECTOR:
PIN REMOVAL TOOL — HUGHES TWO-22 RT-000
PIN INSERTION TOOL — HUGHES TWO-22 IT-000
PIN CRIMPING TOOL — HUGHES TWO-00 CH-000
PIN LOCATOR TOOL — HUGHES TWO-22 LS-000
8. LACE PER ND1002032

PART NO. 1003553-011

QTY REQD	PART OR IDENTIFYING NO.	RECOMMENDATION OR DESCRIPTION	FORM NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MANNED SPACECRAFT CENTER	
FRACTIONS DECIMALS ANGLES		REVISION TERM	
DO NOT SCALE THIS DRAWING		INSTRUCTION DRAWING	
MATERIAL		FOR RIB NO. 0104032	
HEAT TREATMENT		(AGC BSKY MAIN SYS 20)	
FINAL FINISH		NASH DRAWING NO. 1004626	
NEXT ASSY	USED ON	DATE	BY
APPLICATION			

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED AND UP GRADED TO CLASS A PER TDDR 12586	11/25/64	JW



NOTES

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- MATERIAL: 416 SE CRES CLASS 416 SE, COND H₁ PER QQ-S-763
- HEAT TREAT: 160,000 PSI MIN. TENSILE STRENGTH PER MIL-H-6875
HARDNESS: ROCKWELL C36-40
- FINISH: PASSIVATE PER MIL-F-14072 FINISH E 300 TYPE I
- THREADS TO BE FORMED BY ROLLING
- SURFACE ROUGHNESS 125 UNLESS OTHERWISE SPECIFIED
- UNLESS OTHERWISE SPECIFIED SCREW SHALL BE MANUFACTURED IN ACCORDANCE WITH FED SPEC FF-S-86 TYPE VI
- REMOVE ALL BURRS AND BREAK SHARP EDGES
- IDENTIFY PER NO 1002019

PART NUMBER	A	B
-1	.151 .149	.531 .500
-2	.70 .67	.266 .234

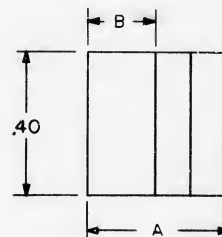
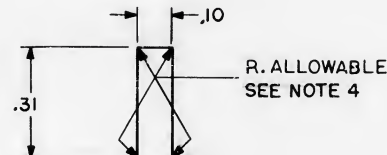
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>P. Williams</i> DATE <i>2/1/64</i>		SCREW, CAPTIVE ROPE COVER	
CHECKED <i>E. J. Dwyer</i> LAD			
APPROVAL <i>Edna Chell</i> 3/24/64			
NASA APPROVAL <i>W. H. H. H.</i>		CODE IDENT NO.	NASA DRAWING NO.
MIT APPROVAL <i>W. H. H. H.</i>		SCALE 4/1	WT
NEXT ASSY		USED ON	SHEET 1 OF 1

MASTER

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE PATENTED, REGISTERED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE CONSIDERED AN IMPLICATION OR OTHERWISE AS ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

SYN		ZONE		DESCRIPTION		DR	CHK	DATE	APPROVED
A				REVISED PER TDRR 17744		RMS	PMS	4/14/65	604

DASH NO.	A	B
-000	.40	.19
-001	.29	.12



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: FILM .006/.008 THICK PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
3. IDENTIFY PER ND 1002019
4. BREAKAGE OF FILM SHALL BE CAUSE FOR REJECTION

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm ——— \pm .02 \pm ——— DO NOT SCALE THIS DRAWING
1003704		MATERIAL SEE NOTE 2
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS					
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.			MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>A. Giddings Jr.</i>			INSULATOR		
CHECKED <i>R. B. Brown</i>					
APPROVED					
APPROVED <i>E. Hall</i>					
APPROVED MIT <i>W. K. Kopp</i>			CODE IDENT NO.	SIZE	DRAWING NO.
APPROVED MSC <i>W. J. R. R.</i>			80230	C	1004738
DATE			SCALE 4/1		SHEET OF

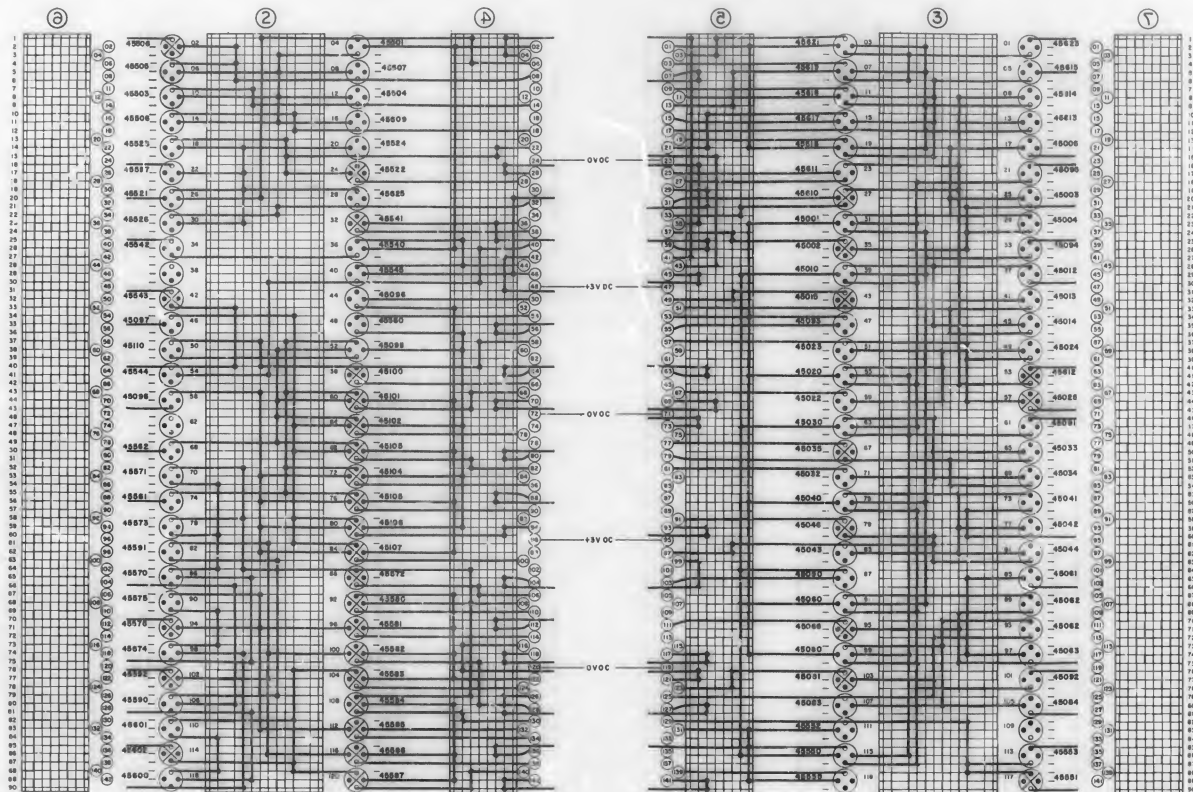
THIS DRAWING IS THE PROPERTY OF THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.

CIRCUIT NUMBER
POSITION NUMBER

POSITION NUMBER
CIRCUIT NUMBER

CIRCUIT NUMBER
POSITION NUMBER


POSITION NUMBER
CIRCUIT NUMBER



NOTES-

1- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2-  DENOTES "FAN IN" CIRCUIT (+3VDC LEAD NOT CONNECTED)

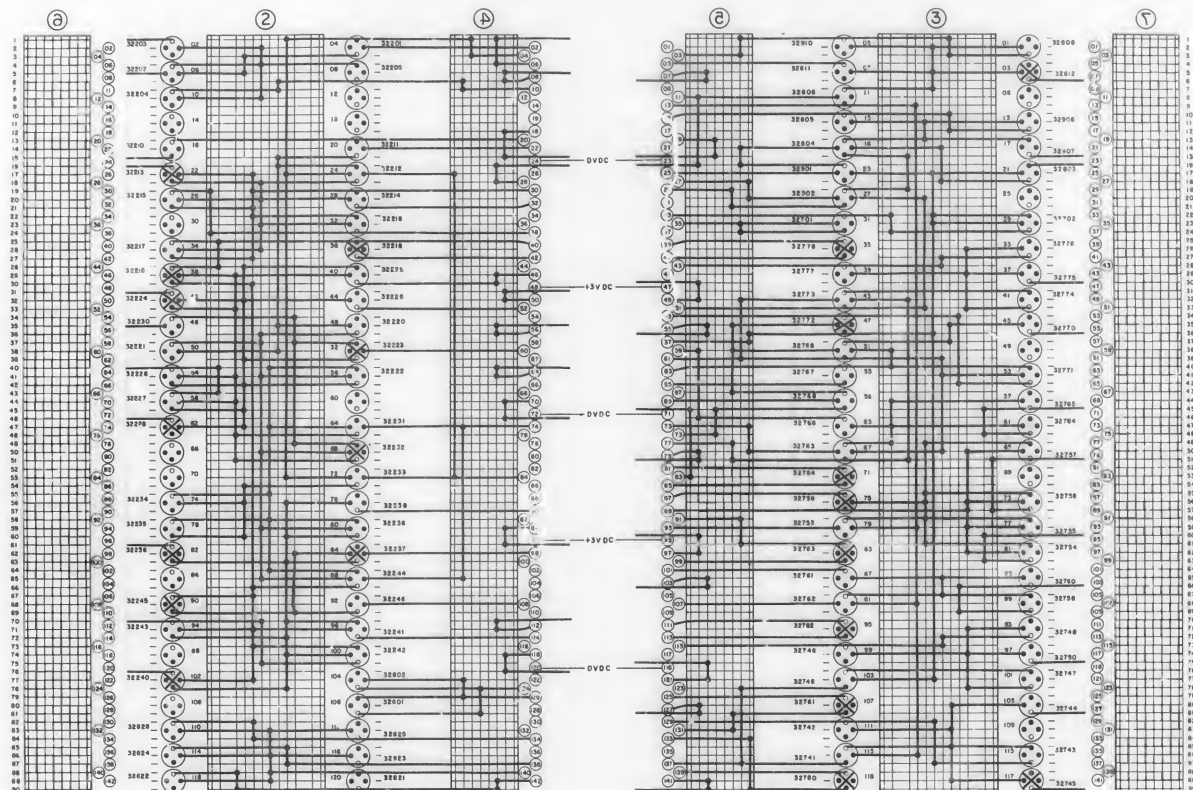
3-  DENOTES "HORN" CIRCUIT

REFER TO DWG. NO. 1006013



REF. DWG.
LOGIC FLOW DIAGRAM 1006541

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIG NO
LIST OF MATERIALS			
MILITARY INSTRUMENTATION LAB			
MANHATTAN SPACECRAFT CENTER			
DRAWN BY: A. D. DATE: 12-1-68			
CHECKED BY: J. D. DATE: 12-1-68			
APPROVED BY: J. D. DATE: 12-1-68			
DO NOT SCALE THIS DRAWING			
MATERIAL			
SEE NOTE 5			
HEAT TREATMENT			
FINISH			
APPLICATION			
NADA APPROVAL NO. 17170		CODE IDENT NO. E	NADA DRAWING NO. 1006121
BY APPROVAL: J. D. DATE: 12-1-68		SCALE: 2/1	SHEET: 1 OF 1

POSITION	NUMBER
1	1
2	2
3	3
4	4
5	5
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99	99
100	100



NOTES -

- 1- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- 2-  DENOTES "FAN IN" CIRCUIT (+3V DC LEAD NOT CONNECTED)
- 3-  DENOTES "NOR" CIRCUIT
- REF. DWG. 10

REF. DWG. 1006013

REF. DWG.
LLOGIC FLOW DIAGRAM 1006542

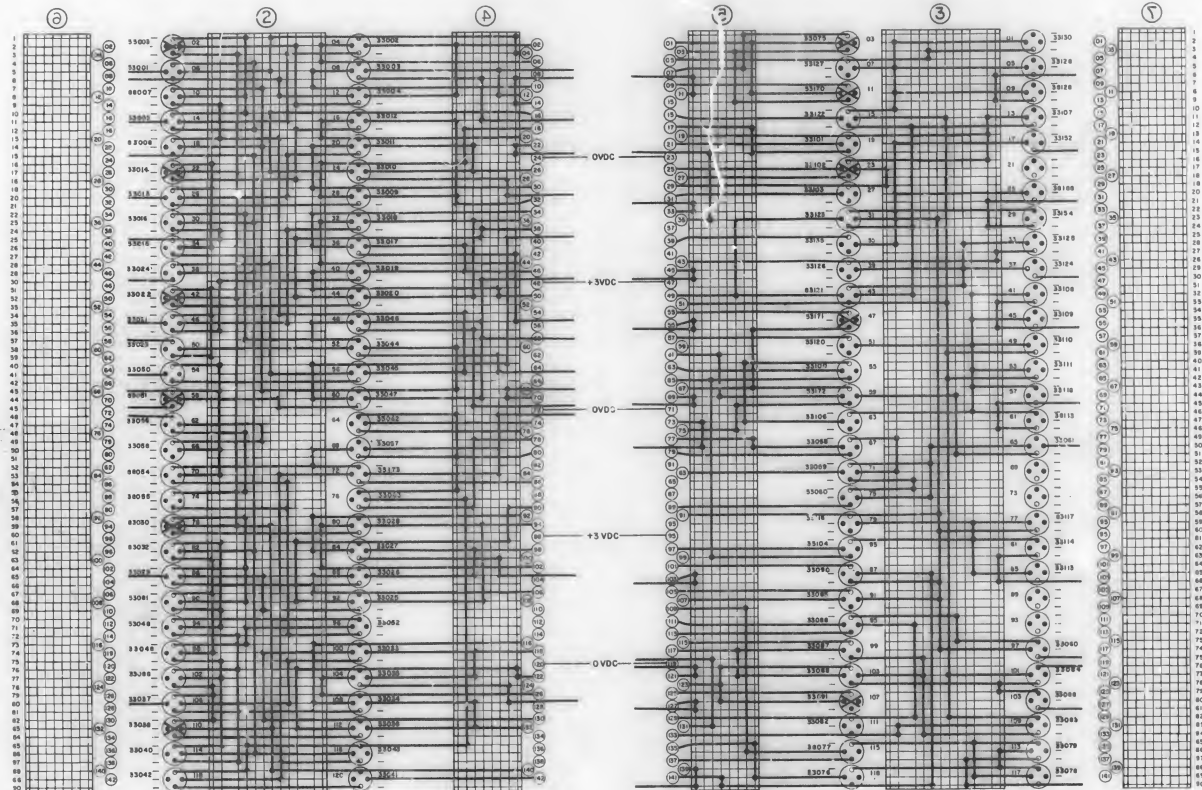
CITY: _____ PART OR IDENTIFYING NO: _____ NON-INCIDENTAL OR DESCRIPTION: _____		F.A. NO.: _____	
LIST OF MATERIALS: _____		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMAL ANGLES .0005 .0005 .0005 .0005 DO NOT SCALE THIS DRAWING MATERIAL: _____		INSTRUMENTATION LAB 200 S. GULF ST. HOUSTON, TEXAS 77058 CHECKED BY: <i>[Signature]</i> DATE: 7/1/73 APPROVED BY: <i>[Signature]</i> DATE: 7/1/73 APPROVAL: _____	
HEAT TREATMENT: _____ FINISH: _____		COOL IDENT NO: _____ SIZE: _____ DATA DRAWING NO: 1006122	
NEXT ASSY: _____ APPLICATION: _____	FINAL FINISH: _____ NET APPROVAL: <i>[Signature]</i> DATE: 7/1/73 SCALE: _____	WT: _____ SHEET: _____	OF: _____

CIRCUIT NUMBER
POSITION NUMBER

POSITION NUMBER
CIRCUIT NUMBER

CIRCUIT NUMBER
POSITION NUMBER

POSITION NUMBER
CIRCUIT NUMBER



REF DWG
1. LOGIC FLOW DIAGRAM 1006543

NOTES -
1- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2- DENOTES "FAN-IN" CIRCUIT (3VDC LEAD NOT CONNECTED)

3- DENOTES "FAN-OUT" CIRCUIT

REF DWG. 1006013

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FINO NO
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIGNAL WIRING DIAGRAM LOGIC MODULE NO. A17			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES OR DECIMALS DO NOT SCALE THIS DRAWING MATERIAL		METS INVESTIGATION LAB CANNON AFB DRAWN BY <i>[Signature]</i> DATE <i>1-17-66</i> CHECKED BY <i>[Signature]</i> DATE <i>1-17-66</i> APPROVAL <i>[Signature]</i> APPROVAL <i>[Signature]</i>	
HEAT TREATMENT NEXT ASSEMBLY USED ON APPLICATION		FINAL TREATMENT FINAL FINISH MET APPROVAL <i>[Signature]</i> TOLERANCE NO. <i>502</i> DATA SHEET NO. <i>1005123</i> SCALE <i>1:1</i>	

CIRCUIT NUMBER

POSITION NUMBER

CIRCUIT NUMBER

POSITION NUMBER

CIRCUIT NUMBER

POSITION NUMBER

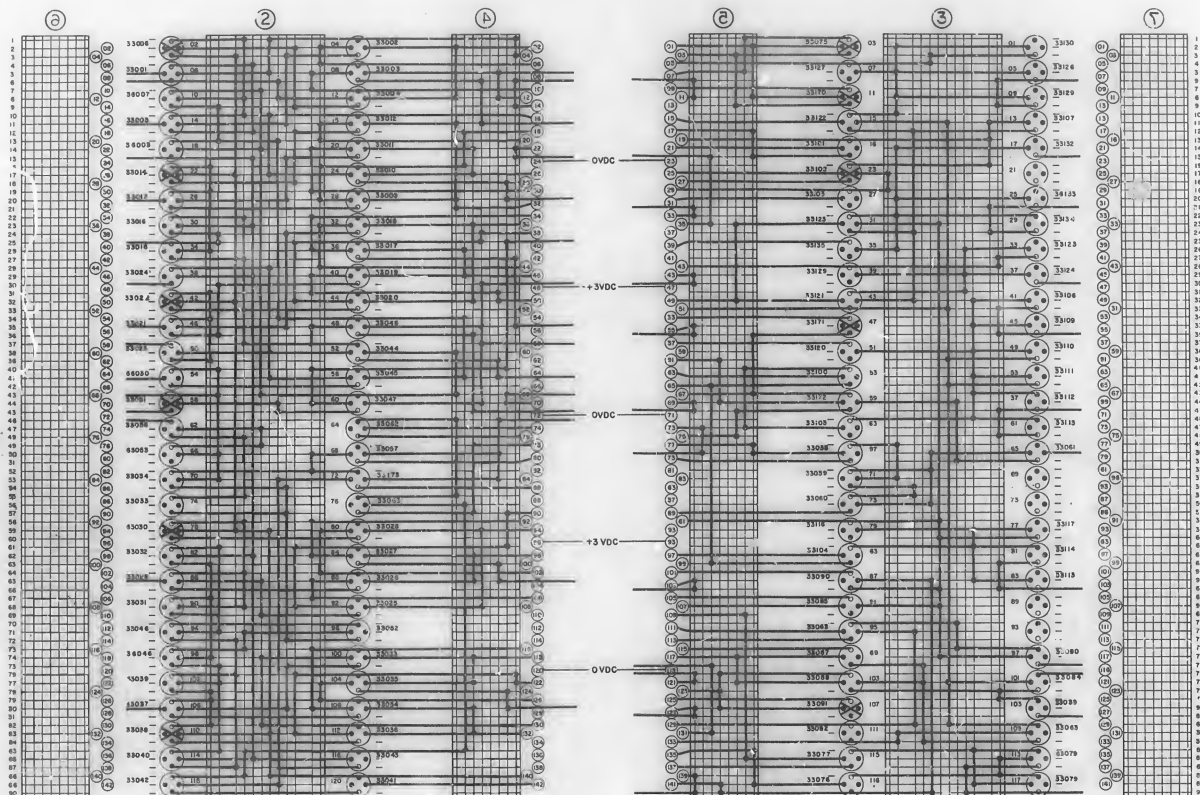
CIRCUIT NUMBER

POSITION NUMBER

REVISIONS 01749

A REVISED PER YOUR 10/1/53

B REVISED PER TDH 10/1/53



REF DWG
I. LOGIC FLOW DIAGRAM 1006543

NOTES -
1 - INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2 - DENOTES "FAN-IN" CIRCUIT (3VDC LEAD NOT CONNECTED)

3 - DENOTES "NOR" CIRCUIT

REF DWG 1006013

QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	UNIT
M.I.T. INSTRUMENTATION LAB			
MANNED SPACECRAFT CENTER			
HEATON, TEXAS			
SIGNAL WIRING DIAGRAM			
LOGIC MODULE NO. A17			
UNLESS OTHERWISE SPECIFIED		DRAWN BY DATE	
DIMENSIONS ARE IN INCHES		CHECKED BY DATE	
TOLERANCES ON FRACTIONS DECIMAL		APPROVED BY	
DO NOT SCALE THIS DRAWING		NESA APPROVAL	
MATERIAL		CODE IDENT NO	
HEAT TREATMENT		SIZE	
MILITARY		NESA DRAWING	
APPLICATION		E 1006123	
LIT. TIGHT		SCALE	
MIL APPROVAL		DATE	

1006123

CIRCUIT NUMBER

POSITION NUMBER

CIRCUIT NUMBER

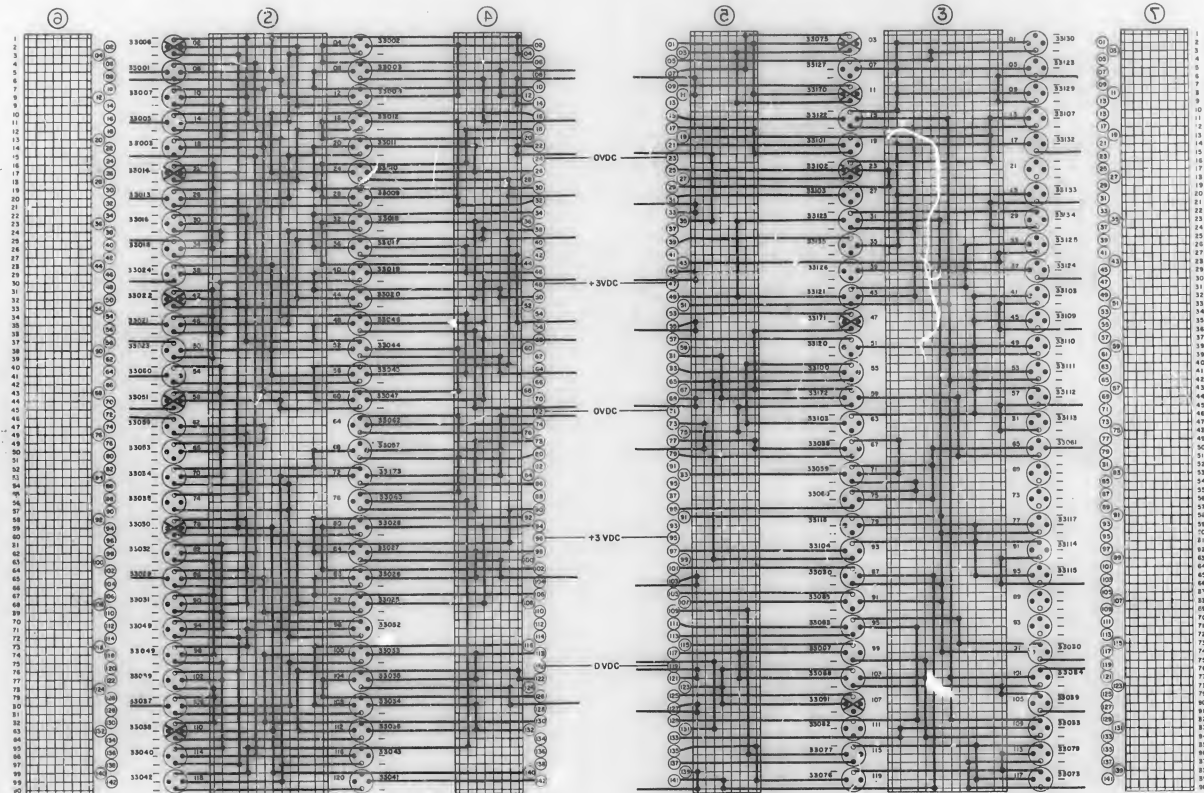
POSITION NUMBER

CIRCUIT NUMBER

POSITION NUMBER

CIRCUIT NUMBER

POSITION NUMBER



NOTE - 1- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-C-10317

2- DENOTES "RAN" (CIRCUIT TO 3VDC LEAD NOT CONNECTED)

3- DENOTES "NOR" (CIRCUIT)

RE DWG. 1006103

REF DWG
LOGIC FLOW DIAGRAM 1006543

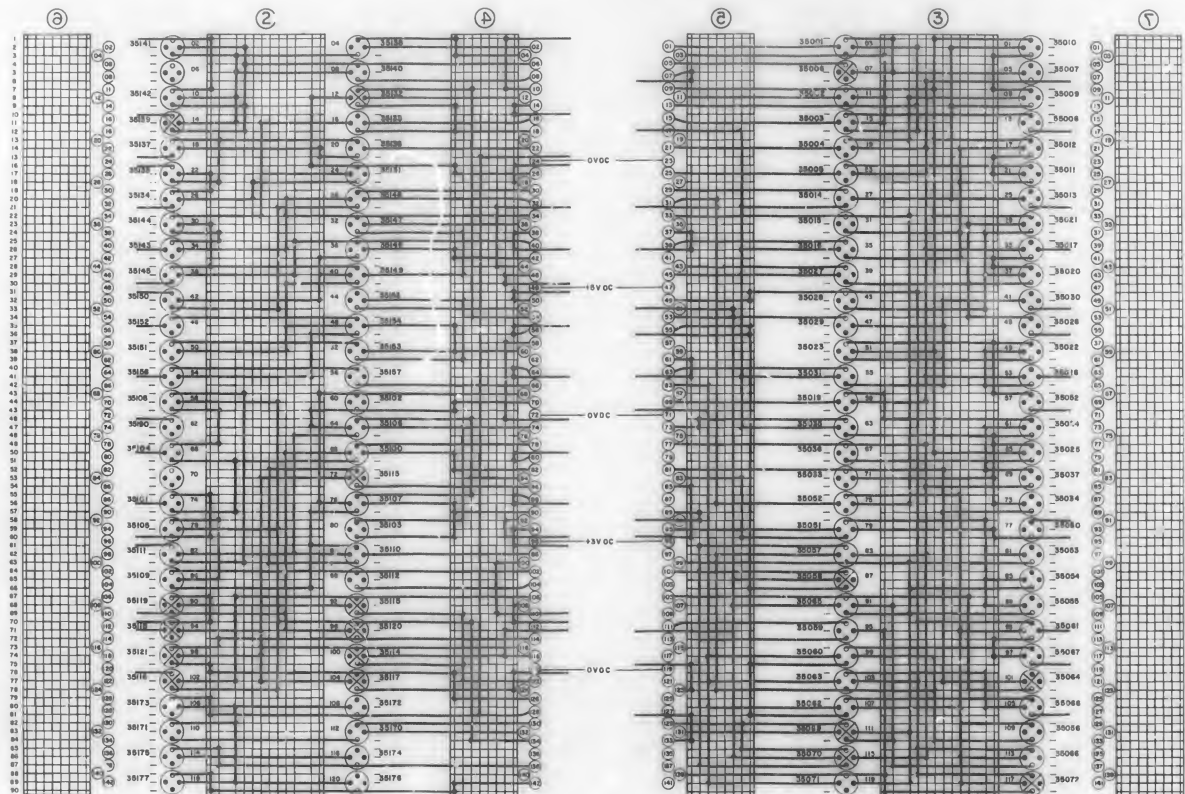
PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIG. NO.
MIL INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER		
UNLESS OTHERWISE SPECIFIED		POSITION YEARS		
CONFORMS TO (MIL-C-10317)				
TOLERANCES ON				
FRACTIONS DECIMALS ANGLES				
DO NOT SCALE THIS DRAWING				
DETAILS				
HEAT TREATMENT				
NEXT ASSEMBLY				
USED ON				
FINAL TEST				
APPLICATION				
MIL APPROVAL		DATE 5-2-53		
BY 1006123		SCALE		
BY 1006123		SHEET		1 OF 1

CIRCUIT NUMBER
POSITION NUMBER


POSITION NUMBER
CIRCUIT NUMBER


CIRCUIT NUMBER
POSITION NUMBER

POSITION NUMBER
CIRCUIT NUMBER



NOTES -
1- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70527

2-  DENOTES "FAN IN" CIRCUIT (+3V DC LEAD, NOT CONNECTED)

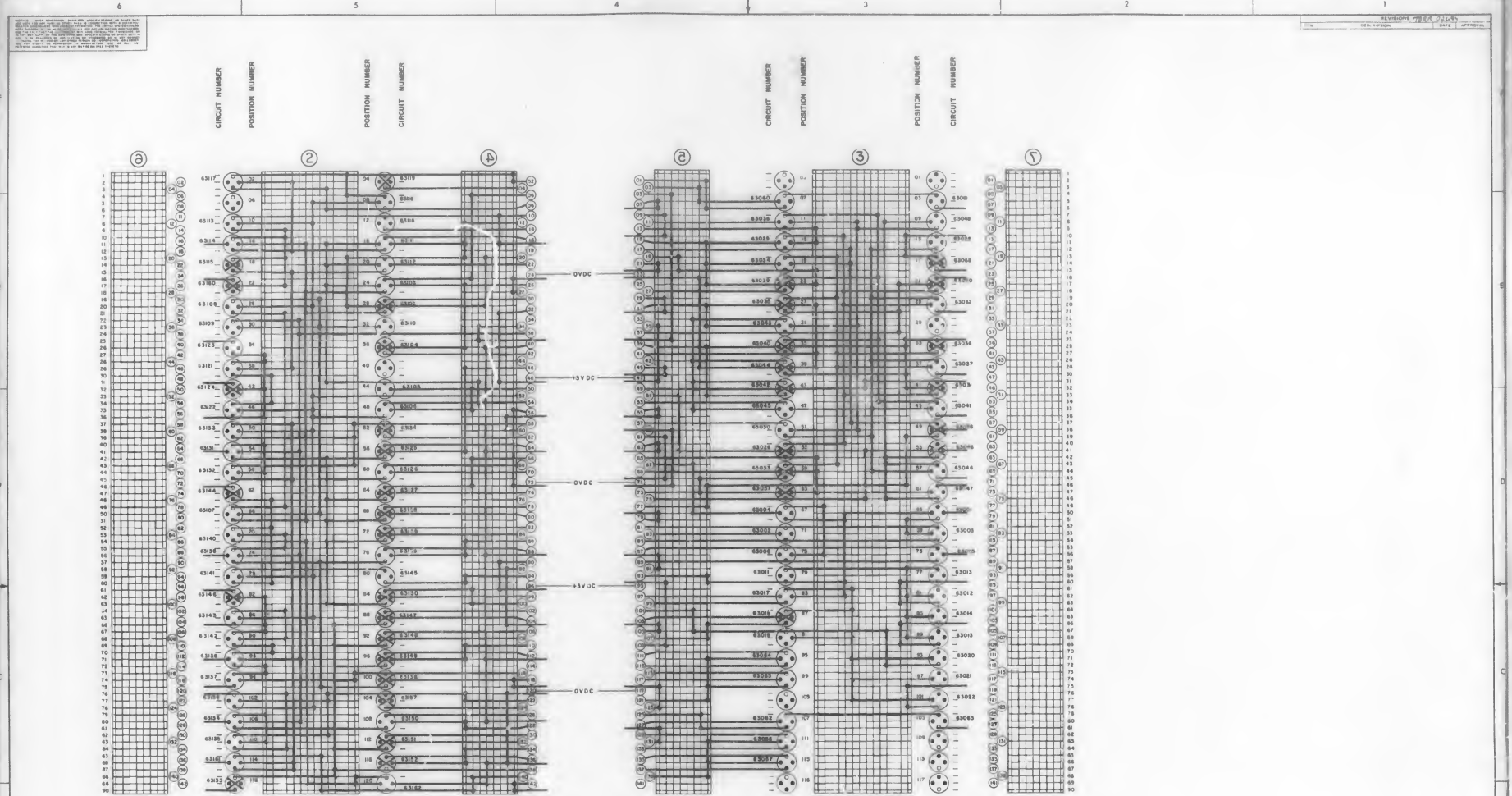
3-  DENOTES "NOR" CIRCUIT

REF. DWG. 1006013

REF. DWG.
LOGIC FLW. DIAGRAM 1006544

QTY. REQ.	PART OR IDENTIFYING NO.	REMARKS OR DESCRIPTION	FILE NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB (Continued on next page) DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i> DATE: <i>11/1/67</i>			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIGNAL WIRING DIAGRAM LOGIC MODULE NO. 1-27			
NASA APPROVAL: <i>[Signature]</i> DATE: <i>11/1/67</i>		NASA DRAWING NO. 1006124	
NEXT REV. USED ON: <i>[Blank]</i>		SCALE: 2/1 SHEET: 1 OF 1	

1006124



- NOTES—
- 1—INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - 2— DENOTES "FAN IN" CIRCUIT (+3VDC LEAD NOT CONNECTED)
 - 3— DENOTES "FAN OUT" CIRCUIT
- REF. DWG. 1006013

REF. DWG.
LOGIC FLOW DIAGRAM 1006046

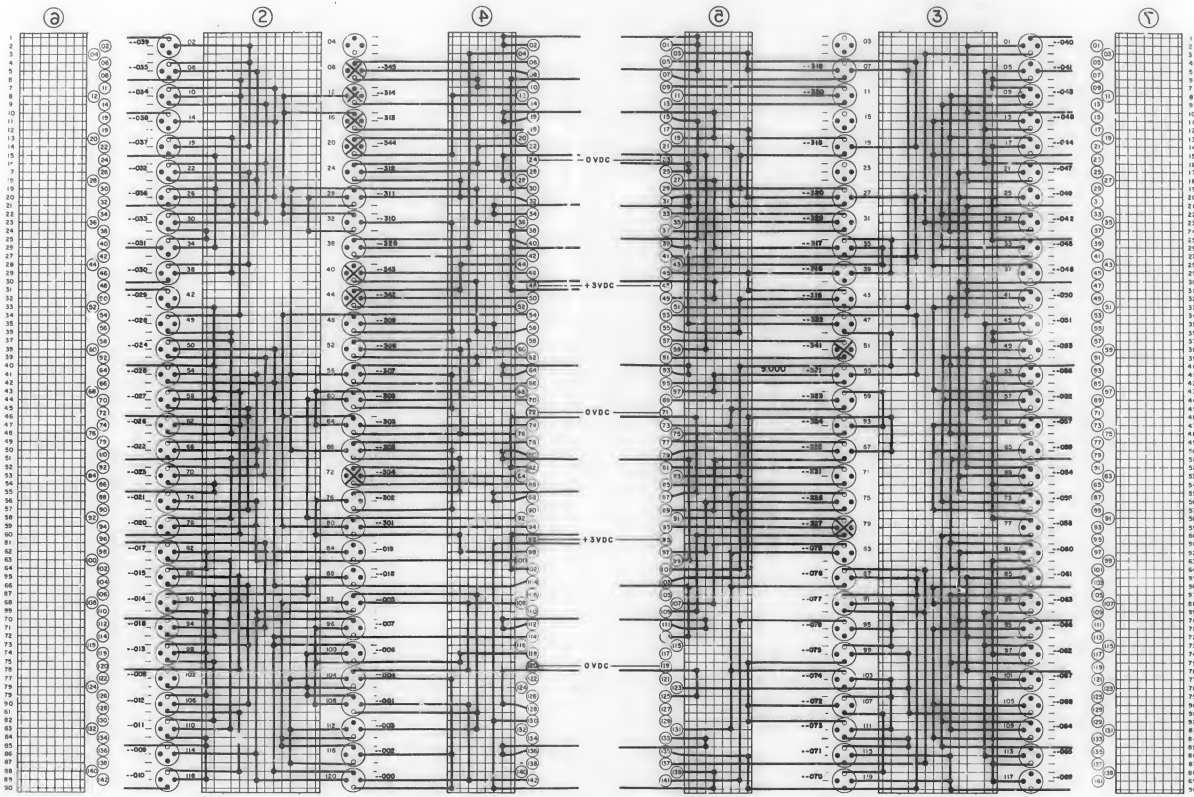
T REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		QTY REQD	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMAL ANGLES TOLERANCES ON DO NOT SCALE THIS DRAWING MATERIAL		INSTRUMENTATION LAB FLIGHTING DIV		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		SHEET 1 OF 1	
SEE NOTE 5		DRAWN BY: <i>[Signature]</i> DATE: <i>10-10-64</i> CHECKED BY: <i>[Signature]</i> APPROVAL BY: <i>[Signature]</i>		SIGNAL WIRING DIAGRAM LOGIC MODULE NO. A-52		NASA DRAWING NO. 1006126	
HEAT TREATMENT TYPED ON		NASA APPROVAL BY: <i>[Signature]</i> DATE: <i>10-10-64</i>		CODE IDENT. NO. E		NASA DRAWING NO. 1006126	
APPLICATION		SCALE 2/1		SHEET 1 OF 1			

1006126

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REVISIONS PER 3-32
REV. NO. 1
REVISED PER 1088 J. J. 1

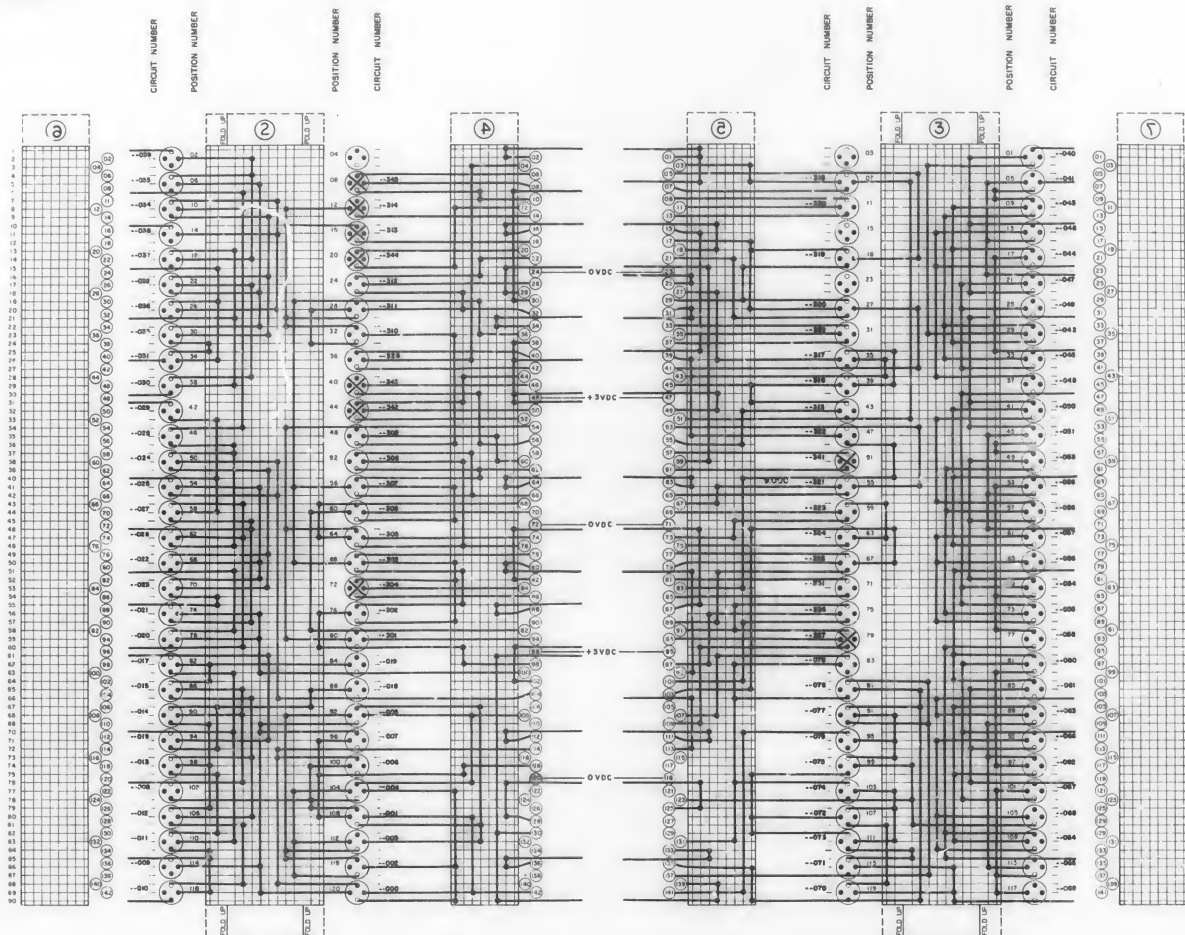


REF. DWG.
1. LOGIC FLOW DIAGRAM 1006547



- NOTES -
1. INTERPRET DWG IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. DENOTES "FAN IN" CIRCUIT (+5VDC LEAD NOT CONNECTED)
 3. DENOTES "NOR" CIRCUIT
- REFER TO DWG. NO. 1006013

QTY REQD	PART OR IDENTIFYING NO.	MANUFACTURE OR DESCRIPTION	FOUND NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 5		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SIGNAL WIRING DIAGRAM LOGIC MODULE NO. A33-34 NASA DRAWING NO. 1006127	
DESIGNER DATE 8-7-63 CHECKED BY APPROVED BY NIT APPROVAL	INSTRUMENTATION LAB DATE 8-7-63 APPROVED BY NIT APPROVAL	CODE IDENT NO. SIZE E 2/1 SHEET 1 OF 1	

1006127



REF. DWG.
1. LOGIC FLOW DIAGRAM 1006547

- NOTES-
1. INTERPRET DWG IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70317
2.  DENOTES "FAN IN" CIRCUIT (+3VDC LEAD NOT CONNECTED)
3.  DENOTES "HORN" CIRCUIT
- } REFER TO DWG. NO. 1006013

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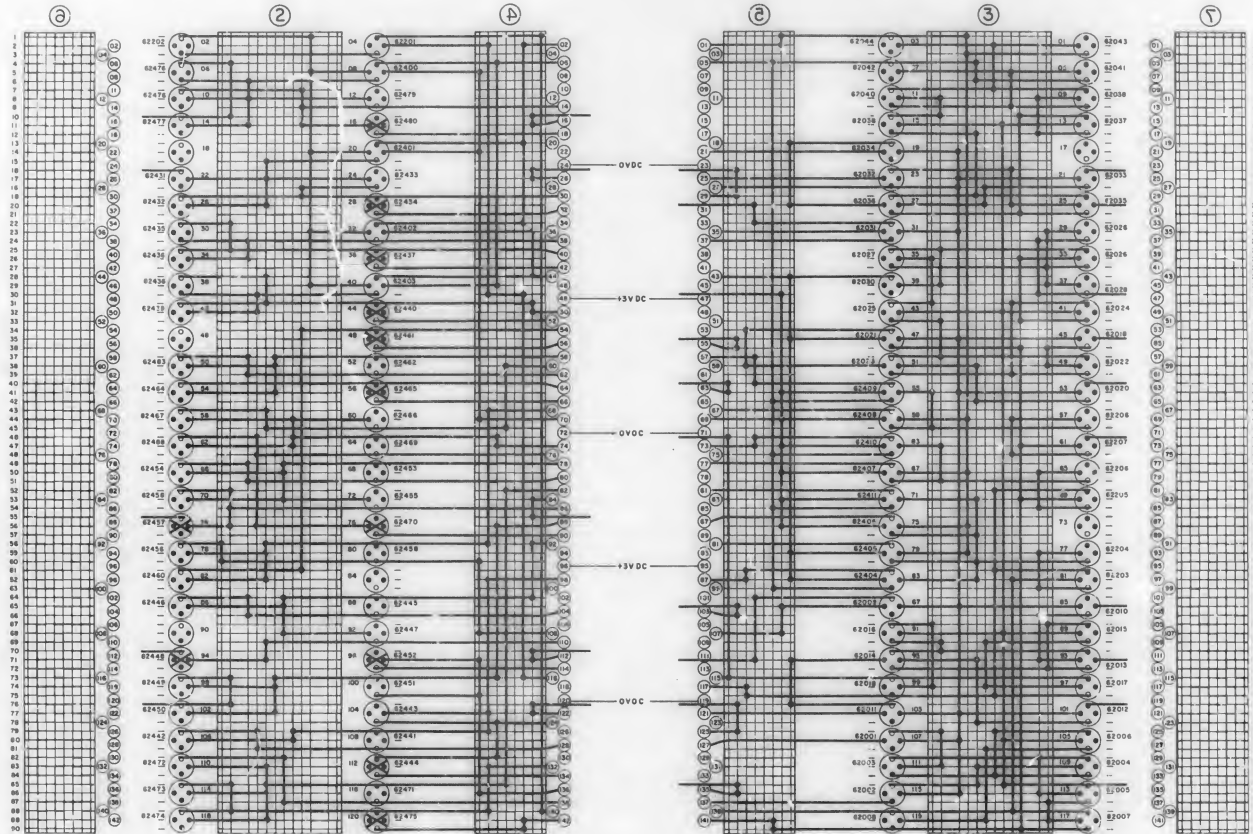
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REF. DWG.
LOGIC FLOW DIAGRAM 1006549

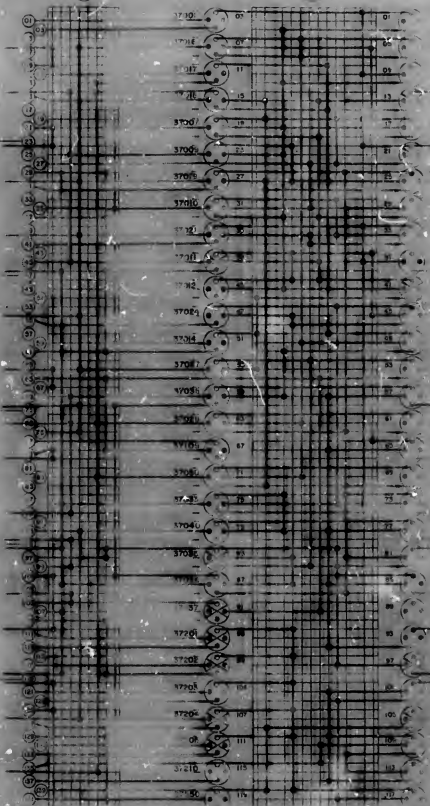
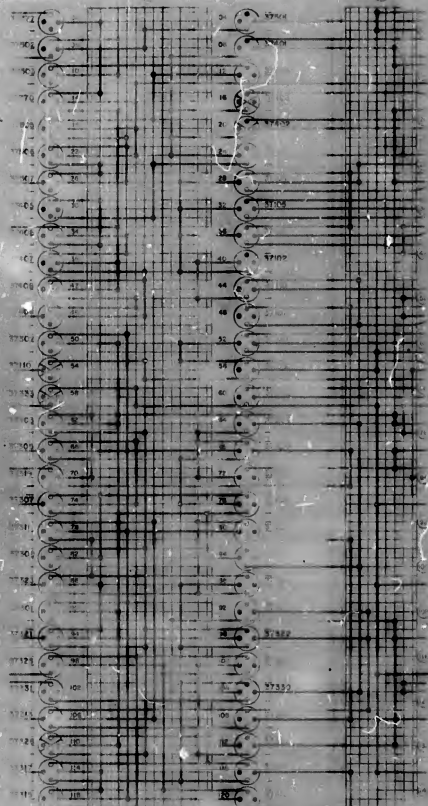
NOTES -
1- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2- DENOTES "FAN IN" CIRCUIT (+3VDC LEAD NOT CONNECTED)

3- DENOTES "NON" CIRCUIT

REF. DWG. 1006013

QTY REQD	PART OR SCAFFOLDING NO.	NOMENCLATURE OR DESCRIPTION	FIG. NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SIGNAL WIRING DIAGRAM LOGIC MODULE NO. A-26			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL		DRAWN BY: <i>[Signature]</i> DATE: 4/1/65 CHECKED BY: <i>[Signature]</i> DATE: 4/1/65 APPROVAL: <i>[Signature]</i> DATE: 4/1/65 SEE NOTE 5	
HEAT TREATMENT		NASA APPROVAL: <i>[Signature]</i> DATE: 4/1/65	
TEST ASST	USCO ON	CODE IDENT NO.	NASA DRAWING NO.
APPLICATION	FINAL TEST	E	1006129
NOT APPROVAL: <i>[Signature]</i> DATE: 4/1/65		SCALE 2/1	1 OF 1

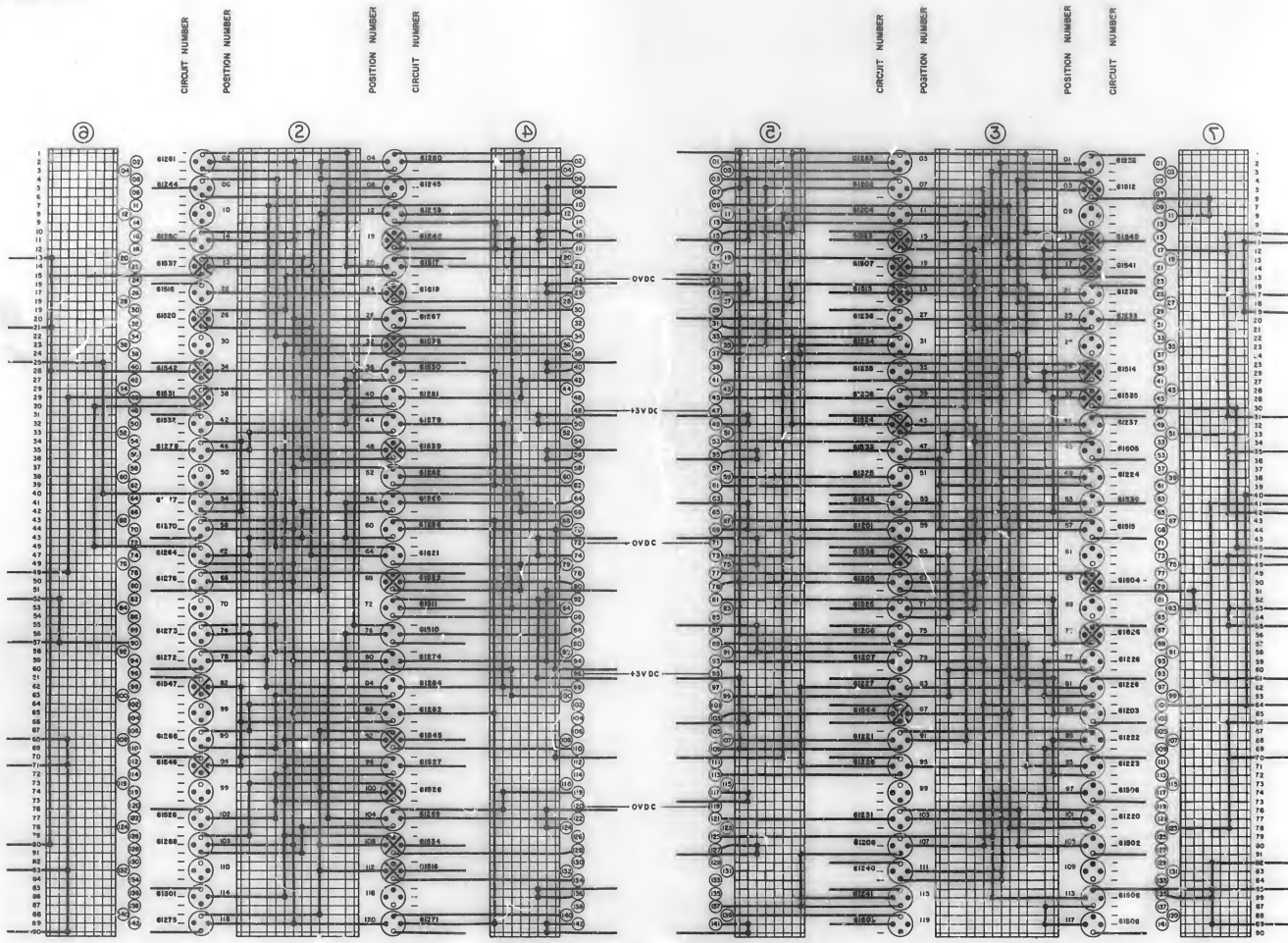


Wiring diagram for logic module No. A-12, right side. It shows a grid of components with various labels and connection lines. Labels include 7712, 7713, 7714, 7715, 7716, 7717, 7718, 7719, 7720, 7721, 7722, 7723, 7724, 7725, 7726, 7727, 7728, 7729, 7730, 7731, 7732, 7733, 7734, 7735, 7736, 7737, 7738, 7739, 7740, 7741, 7742, 7743, 7744, 7745, 7746, 7747, 7748, 7749, 7750, 7751, 7752, 7753, 7754, 7755, 7756, 7757, 7758, 7759, 7760, 7761, 7762, 7763, 7764, 7765, 7766, 7767, 7768, 7769, 7770, 7771, 7772, 7773, 7774, 7775, 7776, 7777, 7778, 7779, 7780, 7781, 7782, 7783, 7784, 7785, 7786, 7787, 7788, 7789, 7790, 7791, 7792, 7793, 7794, 7795, 7796, 7797, 7798, 7799, 7800, 7801, 7802, 7803, 7804, 7805, 7806, 7807, 7808, 7809, 7810, 7811, 7812, 7813, 7814, 7815, 7816, 7817, 7818, 7819, 7820, 7821, 7822, 7823, 7824, 7825, 7826, 7827, 7828, 7829, 7830, 7831, 7832, 7833, 7834, 7835, 7836, 7837, 7838, 7839, 7840, 7841, 7842, 7843, 7844, 7845, 7846, 7847, 7848, 7849, 7850, 7851, 7852, 7853, 7854, 7855, 7856, 7857, 7858, 7859, 7860, 7861, 7862, 7863, 7864, 7865, 7866, 7867, 7868, 7869, 7870, 7871, 7872, 7873, 7874, 7875, 7876, 7877, 7878, 7879, 7880, 7881, 7882, 7883, 7884, 7885, 7886, 7887, 7888, 7889, 7890, 7891, 7892, 7893, 7894, 7895, 7896, 7897, 7898, 7899, 7900, 7901, 7902, 7903, 7904, 7905, 7906, 7907, 7908, 7909, 7910, 7911, 7912, 7913, 7914, 7915, 7916, 7917, 7918, 7919, 7920, 7921, 7922, 7923, 7924, 7925, 7926, 7927, 7928, 7929, 7930, 7931, 7932, 7933, 7934, 7935, 7936, 7937, 7938, 7939, 7940, 7941, 7942, 7943, 7944, 7945, 7946, 7947, 7948, 7949, 7950, 7951, 7952, 7953, 7954, 7955, 7956, 7957, 7958, 7959, 7960, 7961, 7962, 7963, 7964, 7965, 7966, 7967, 7968, 7969, 7970, 7971, 7972, 7973, 7974, 7975, 7976, 7977, 7978, 7979, 7980, 7981, 7982, 7983, 7984, 7985, 7986, 7987, 7988, 7989, 7990, 7991, 7992, 7993, 7994, 7995, 7996, 7997, 7998, 7999, 8000.

REF 244

WIRING DIAGRAM
LOGIC MODULE NO. A-12

REVISIONS: 1. 10-1-67
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NOTES -
1- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2- DENOTES "FAN IN" CIRCUIT (+3VDC LEAD NOT CONNECTED)
3- DENOTES "FAN OUT" CIRCUIT

REF. DWG. 1006015

REF. DWG. 1006555

QTY PLUG	UNIT OR IDENTIFYING NO.	DESCRIPTION OR IDENTIFICATION	FILE NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SIGNAL WIRING DIAGRAM LOGIC MODULE NO. A24			
CODE IDENT NO. 1006135			
NESA DRAWING NO. 1006135			
SHEET 1 OF 1			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING TOLERANCES SEE NOTE 5 HEAT TREATMENT NEXT ASSEMBLY USED ON APPLICATION	INSTRUMENTATION LAB CHECKED APPROVED NESA APPROVAL DATE 10-1-67	APPROVAL DATE 10-1-67
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NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAME DOES NOT CONSTITUTE AN ACKNOWLEDGMENT THAT IT IS TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REQUIREMENTS:

1. GENERAL:

- A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 3.
- C. PART MARKING: PARTS SHALL BE MARKED, IN ACCORDANCE WITH ND 1002019, WITH THE MANUFACTURER'S SYMBOL AND NASA PART NUMBER (DRAWING NUMBER, REVISION LETTER, AND DASH NUMBER).
- D. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215, CLASS I, CODE 7.
 - (1) MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING AS SPECIFIED IN ND 1002215.

2. ACCEPTANCE AND INSPECTION:

- A. MECHANICAL REQUIREMENTS:
 - (1) DIMENSIONS: AS DELINEATED HEREIN.
 - (2) MARKING: AS SPECIFIED IN NOTES 1.C AND 1.D.
- B. VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION.
 - (1) CERTIFICATE OF COMPLIANCE WITH MATERIAL, HARDNESS, AND FINISH REQUIREMENTS.

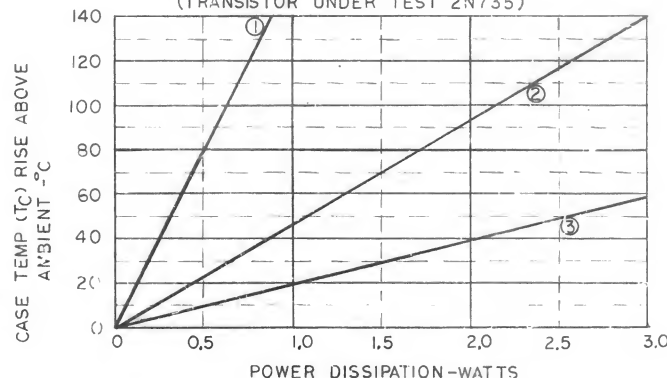
3. DESIGN:

- A. THERMAL RATING: SEE FIGURE 1.
- B. CONSTRUCTION: TWO-PIECE HOLDER FOR TO-18 TRANSISTORS
 - (1) MATERIAL AND HARDNESS: ALUMINUM ALLOY 2024-T4 PER QQ-A-225.
 - (2) PROTECTIVE FINISH: ANODIZE PER MIL-A-8625, TYPE I, COLOR BLACK.

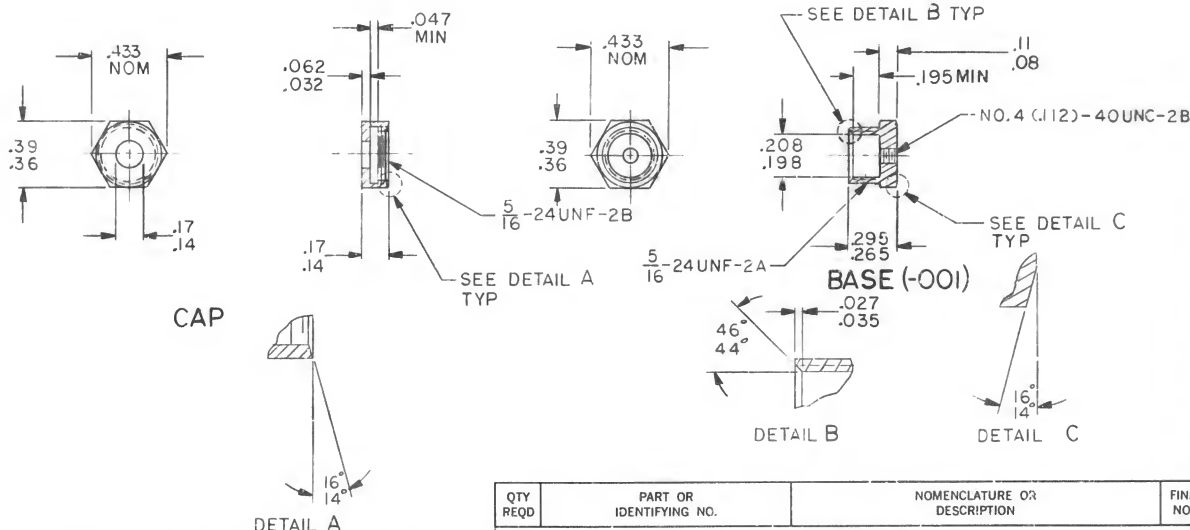
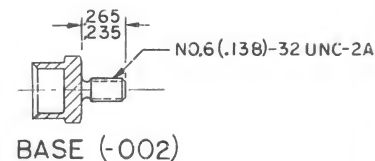
DASH NO	DESCRIPTION
-001	CAP & TAPPED BASE
-002	CAP & STUD MTG BASE

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

FIG. 1-THERMAL CHARACTERISTIC
(TRANSISTOR UNDER TEST 2N735)



- ①=TO-18 CASE - NO HEAT SINK
- ②=TO-18 CASE IN HEAT SINK-NATURAL CONVECTION
- ③=TO-18 CASE IN HEAT SINK MOUNTED ON 6X6X.06 AL PLATE



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>D. H. HARRIS</i> DATE <i>11/22/65</i> CHECKED <i>W. J. HARRIS</i> DATE <i>11/22/65</i> APPROVAL <i>W. J. HARRIS</i> APPROVAL <i>W. J. HARRIS</i>		HEATSINK, ELECTRICAL-ELECTRONIC COMPONENT SPECIFICATION CONTROL DRAWING	
NASA APPROVAL <i>W. J. HARRIS</i> MIT APPROVAL <i>W. J. HARRIS</i> MIT APPROVAL <i>W. J. HARRIS</i>		CODE IDENT NO. <i>80230</i> SIZE <i>C</i>	NASA DRAWING NO. <i>1006336</i>
SCALE <i>NONE</i> W:		SHEET <i>1</i> OF <i>1</i>	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE	
HEAT TREATMENT FINAL FINISH SEE NOTE	
NEXT ASSY	USED ON
APPLICATION	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSION, MISSTATEMENT, OR THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA. NO PART OF THIS DRAWING, SPECIFICATION OR OTHER DATA IS TO BE REPRODUCED OR TRANSMITTED IN ANY MANNER OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE GOVERNMENT. THE GOVERNMENT MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SHALL NOT BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, INCLUDING SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THIS DRAWING, SPECIFICATION, OR OTHER DATA.

REQUIREMENTS:

1. GENERAL:
 - A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 2.
 - C. PART MARKING: UNITS SHALL BE MARKED: PER ND 1002019, USING INK PER ND1010920, ON THE SURFACE(S) INDICATED: WITH THE MANUFACTURERS SYMBOL, LOT CODE OR NUMBER, AND NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER)
 - D. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215, CLASS I, CODE I.
 - (1) MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING PER ND 1002215.

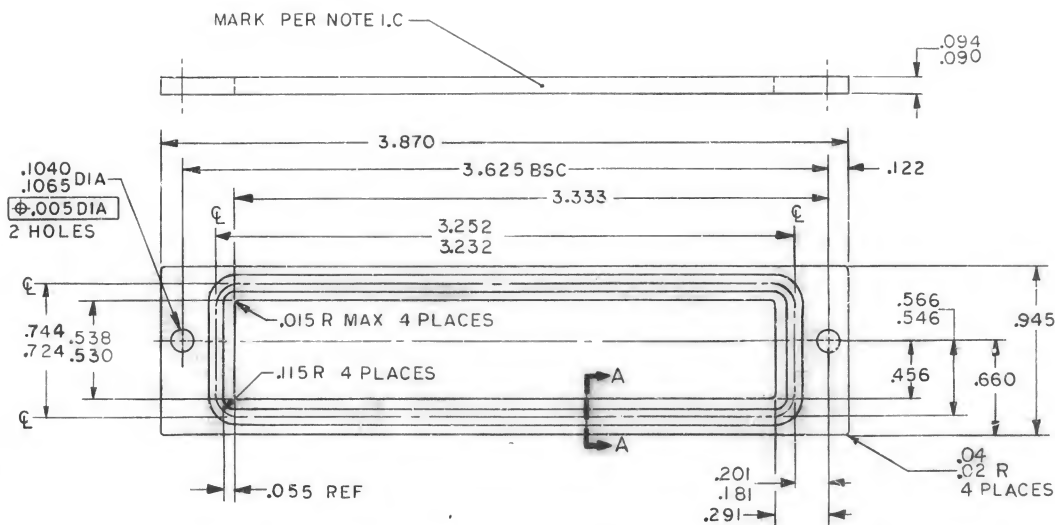
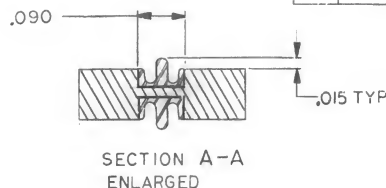
2. ACCEPTANCE & INSPECTION (100%)

- A. MECHANICAL PROPERTIES:
 - (1) DIMENSIONS: AS DELINEATED HEREIN.
 - (2) MARKING: AS SPECIFIED IN NOTES 1.C AND 1.D.
 - (3) COMPRESSION: PARTS SHALL BE CAPABLE OF COMPLETE COMPRESSION BETWEEN TWO FLAT PLATES WITHOUT DAMAGE TO THE RUBBER GASKET.
 - (4) SURFACE ROUGHNESS 125
- B. VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION.
 - (1) CERTIFICATE OF COMPLIANCE WITH MATERIAL, HARDNESS AND FINISH REQUIREMENTS.
 - (2) CERTIFICATE OF COMPLIANCE WITH ND1015404 CLASS 2

3. DESIGN:

- A. STORAGE LIFE: ONE YEAR MINIMUM (RUBBER GASKET) WHEN STORED AT ORDINARY ROOM CONDITIONS (77 ± 5°F AND 50% RH).
- B. CONSTRUCTION: MACHINED OR PRECISION CAST ALUMINUM PLATE WITH BUTYL RUBBER GASKETS MOLDED IN PLACE.
 - (1) MATERIAL AND FINISH, PLATE: 6061-T6 ALUMINUM ALLOY PER QQ-A-250/11, CHROMATE PER MIL-C-5541, TYPE II GRADE C, CLASS 3
 - (2) MATERIAL, RUBBER GASKET: BUTYL TYPE RUBBER PER AMS-3238.
 - (3) HARDNESS, RUBBER: 70 ± 5 SHORE A DUROMETER (ASTM D-705).
- C. SEALING: WHEN COMPRESSED TO THE PLATE LEVEL THE RUBBER SHALL BE CAPABLE OF SEALING AGAINST A LEAKAGE OF 10⁻⁸ ATM CC/SEC/INCH OF SEAL OF DRY NITROGEN AT A PRESSURE DIFFERENTIAL OF 1 ATMOSPHERES.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.



QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>[Signature]</i> 5-21-65		GASKET, PLATE		
CHECKED <i>[Signature]</i>		BONDED RUBBER, RETAINED		
APPROVED <i>[Signature]</i>		SPECIFICATION CONTROL DRAWING		
APPROVED <i>[Signature]</i>		CODE IDENT NO.	SIZE	DRAWING NO.
APPROVED <i>[Signature]</i>		80230	C	1006339
DATE		SCALE	SHEET 1 OF 1	
		NONE		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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FRACTIONS DECIMALS ANGLES
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DO NOT SCALE THIS DRAWING

MATERIAL

SEE NOTE

APPLICATION

NEXT ASSY USED ON

•

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PRIVILEGES TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRESCRIBED BY MIL-D-70327.
- UNITS SHALL MEET THE GENERAL REQUIREMENTS OF MIL-V-45363 EXCEPT AS, AND IN ADDITION TO THE REQUIREMENTS, SPECIFIED HEREIN.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 3.
- PART MARKING: PARTS SHALL BE MARKED, IN ACCORDANCE WITH ND 1002019, WITH THE MANUFACTURER'S SYMBOL, PART NUMBER, AND NASA PART NUMBER (DRAWING NUMBER, REVISION LETTER, AND DASH NUMBER).
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215, CLASS I, CODE 3, 4, & 7.
 - MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING SPECIFIED IN ND 1002215.

2. ACCEPTANCE AND INSPECTION:

A. MECHANICAL REQUIREMENTS:

- DIMENSIONS: AS SPECIFIED HEREIN.
- MARKING: AS SPECIFIED IN NOTES 1.D & 1.E
- SEAL: WHEN PROPERLY INSTALLED IN A MOUNTING HOLE .375-.380 DIAMETER IN A PANEL HAVING A SURFACE ROUGHNESS OF $R_{a} .63$, THE VALVE WITH CORE, CAP, AND "O" RING ASSEMBLED SHALL EXHIBIT A LEAK RATE OF LESS THAN 10^{-8} CC/SEC OF DRY NITROGEN UNDER AN INTERNAL PRESSURE DIFFERENTIAL OF +20 PSI.

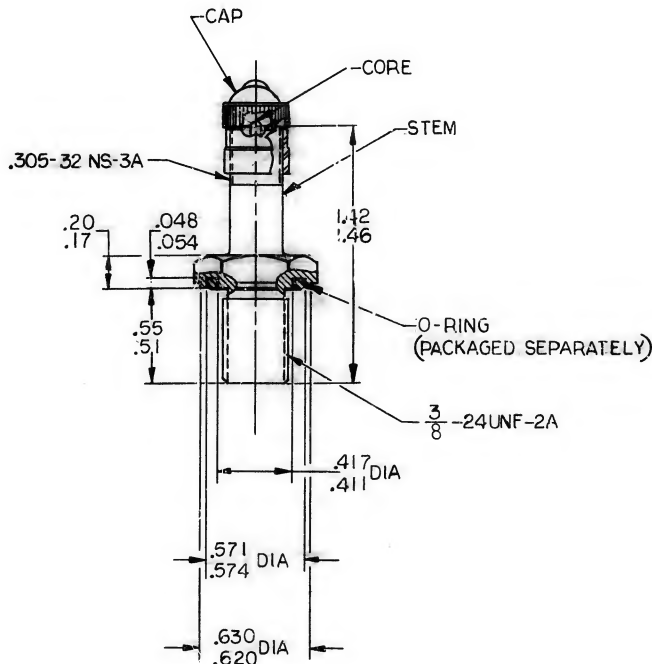
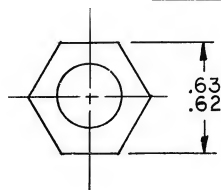
B. VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION:

- CERTIFICATE OF COMPLIANCE WITH MATERIAL REQUIREMENTS.
- CERTIFICATE OF COMPLIANCE WITH SEALING CAPABILITY REQUIREMENTS.

3. DESIGN:

- OPERATING LIFE: 1 YEAR MINIMUM WHEN PROPERLY INSTALLED [NOTE 2.A.(3)]
- STORAGE LIFE: 6 MONTHS MINIMUM FROM DATE OF SHIPMENT WHEN STORED AT $77^{\circ} \pm 10^{\circ}F$ AND $50 \pm 10\% RH$. SEALING ABILITY SHALL NOT BE IMPAIRED.
- CONSTRUCTION: STANDARD AUTOMOBILE-TYPE VALVE PER MIL-V-45363 EXCEPT FOR THE FOLLOWING:
 - BASE DESIGN: AS DELINEATED.
 - CAP AND CORE RUBBER MATERIAL: BUTYL RUBBER PER AMS 3238B.
 - O-RING SEAL: SILICONE OR BUTYL RUBBER (NASA PART 1000159-14 REFERENCE).
 - VALVE CAP: NICKEL PLATE PER QQ-N-290, TYPE V.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING
		MATERIAL
		SEE NOTE
NEXT ASSY	USED ON	
APPLICATION		

1006345

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
		INITIAL RELEASE CLASS A PER TDRK			6-10-65	

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.			
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
DRAWN <i>W. delaney</i>		VALVE, PNEUMATIC TANK SPECIFICATION CONTROL DRAWING					
CHECKED <i>C. Cagge</i>							
APPROVED <i>E. C. Hall</i>							
APPROVED <i>M. G. Murphy</i>							
MIT		CODE IDENT NO.	SIZE	DRAWING NO.			
APPROVED <i>M. G. Murphy</i>		80230	C	1006345			
MSC		DATE	SCALE	SHEET			
			NONE	OF			

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN MD 1015404, CLASS 2.
- PART MARKING: UNITS SHALL BE MARKED: PER MD 1002019, ON THE SURFACE(S) INDICATED: WITH THE MANUFACTURER'S SYMBOL, LOT CODE OR NUMBER, AND NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER).
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH MD 1002215, CLASS I, CODE 3.
 - MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING PER MD 1002215.

2. ACCEPTANCE & INSPECTION (100%)

A. MECHANICAL PROPERTIES:

- DIMENSIONS: AS DELINEATED HEREIN.
- MARKING: AS SPECIFIED IN NOTES 1.C AND 1.D.
- COMPRESSION: RUBBER SEAL PORTION SHALL BE CAPABLE OF BEING COMPRESSED TO THE LEVEL OF THE PLATE WITHOUT DAMAGE.
- SURFACE ROUGHNESS 125

B. VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION

- CERTIFICATE OF COMPLIANCE WITH MATERIAL, HARDNESS AND FINISH REQUIREMENTS.
- CERTIFICATE OF COMPLIANCE TO MD 1015404 CLASS 2

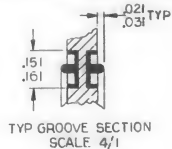
3. DESIGN:

A. STORAGE LIFE: ONE YEAR MINIMUM (RUBBER GASKET) WHEN STORED AT ORDINARY ROOM CONDITIONS (77 ± 5°F AND 50% RH).

B. CONSTRUCTION: MACHINED OR PRECISION CAST ALUMINUM PLATE WITH BUTYL RUBBER GASKETS MOLDED IN PLACE.

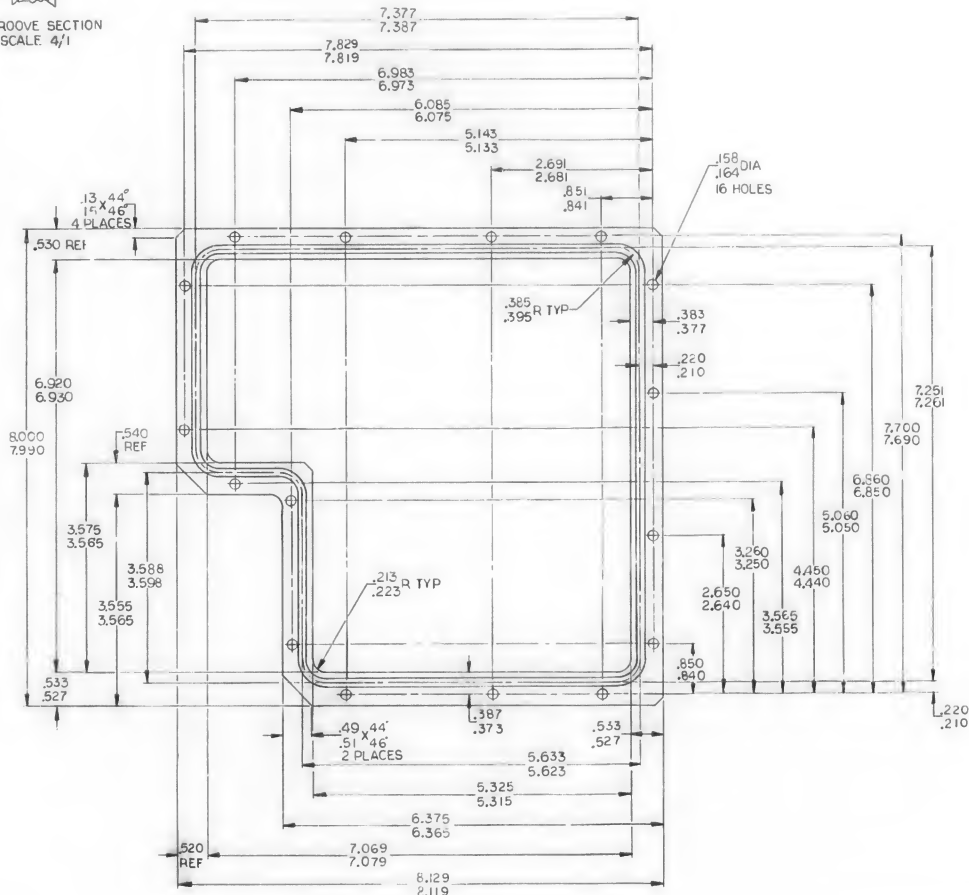
- MATERIAL AND FINISH, PLATE: 6061-T6 ALUMINUM ALLOY PER QQ-A-250/11, BLACK ANODIZED PER MIL-A-8625, TYPE II, COLOR BLACK.
- MATERIAL, RUBBER GASKET: BUTYL TYPE RUBBER PER AMS-3230.
- HARDNESS, RUBBER: 70 ± 5 SHORE A DUREMETER (ASTM D-785).

C. SEALING: WHEN COMPRESSED TO THE PLATE LEVEL, THE RUBBER SHALL BE CAPABLE OF SEALING AGAINST A LEAKAGE OF 10⁻⁸ ATM CC/SEC/INCH OF SEAL OF DRY NITROGEN AT A PRESSURE DIFFERENTIAL OF 2 ATMOSPHERES.



SEAL BOTH SIDES CHEMICAL BOND

MARK PER NOTE 1.C



PROCURE ONLY FROM APPROVED SOURCES LISTED IN MD 1002034 FOR THIS DRAWING.

1006349

REVISIONS			
SIM	DESCRIPTION	DATE	APPROVED
1	INITIAL RELEASE CLASS A TEST 70001468	5-14-68	WR

QTY REQ	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
GASKET, BONDED, RUBBER, RETAINED.			
SPECIFICATION CONTROL DRAWING			
CODE IDENT NO. SIZE		NASA DRAWING NO.	
D		1006349	
SCALE 1/1		SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
TOLERANCES ON	DECIMALS	ANGLES
DRAWN	± .005	± .005
CHECKED	± .005	± .005
APPROVAL		
APPROVAL		
APPROVAL		
NASA APPROVAL		
MIT APPROVAL		
MIT APPROVAL		
NEXT ASSY	USED ON	APPLICATION

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN NO 1015404, CLASS 3
- PART MARKING: IDENTIFY PER NO 1002019. THE SURFACE(S) INDICATED: WITH THE MANUFACTURER'S SYMBOL, LOT CODE OR NUMBER, AND NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER).
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH NO 1002215, CLASS I, CODE 3.
 - MARKING OF SHIPMENT CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING PER NO 1002215.

2. ACCEPTANCE & INSPECTION (100%)

A. MECHANICAL PROPERTIES:

- DIMENSIONS: AS DELINEATED HEREIN.
- MARKING: AS SPECIFIED IN NOTES 1.C AND 1.D.
- COMPRESSION: RUBBER SEAL PORTION SHALL BE CAPABLE OF BEING COMPRESSED TO THE LEVEL OF THE PLATE WITHOUT DAMAGE.
- SURFACE ROUGHNESS 125 / PER MIL-STD-10

B. VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION.

- CERTIFICATE OF COMPLIANCE WITH MATERIAL, HARDNESS AND FINISH REQUIREMENTS.
- CERTIFICATE OF COMPLIANCE WITH NO 1015404, CLASS 3

3. DESIGN:

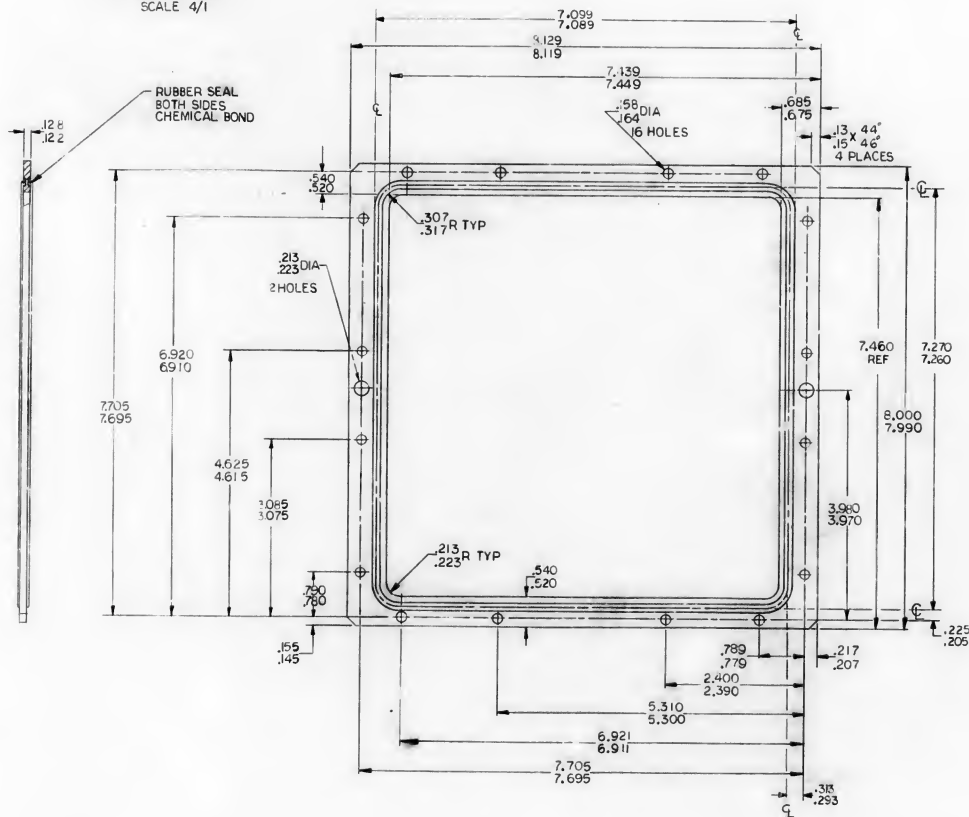
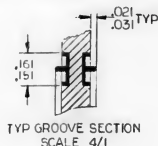
A. STORAGE LIFE: ONE YEAR MINIMUM (RUBBER GASKET) WHEN STORED AT ORDINARY ROOM CONDITIONS (77° ± 5°F AND 50% RH).

B. CONSTRUCTION: MACHINED OR PRECISION CAST ALUMINUM PLATE WITH BUTYL RUBBER GASKETS MOLDED IN PLACE.

- MATERIAL AND FINISH, PLATE: 6061-T6 ALUMINUM PLLOY PER QQ-A-250/11. CHROME FILM PER MIL-C-5541, TYPE II, CLASS 3.

- MATERIAL, RUBBER GASKET: BUTYL TYPE RUBBER PER AMS-3238A.
- HARDNESS, RUBBER: 70 ± 5 SHORE A DUROMETER (ASTM D-785).

C. SEALING: WHEN COMPRESSED TO THE PLATE LEVEL, THE RUBBER SHALL BE CAPABLE OF SEALING AGAINST A LEAKAGE OF 2 × 10⁻⁴ ATM CC/SEC/INCH OF SEAL OF DRY NITROGEN AT A PRESSURE DIFFERENTIAL OF 2 ATMOSPHERES AND A TEMPERATURE OF -10° TO 82°C.



PROCURE ONLY FROM APPROVED SOURCES LISTED IN NO 1002034 FOR THIS DRAWING.

05E9001

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	INITIAL RELEASE CLASS A PER TDRR	8-2-199	
A	REVISED PER TDRR 22129	8/14	22129

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MTP INSTRUMENTATION LAB HOUSTON, TEXAS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN: [Signature] DATE: 8/2/199		GASKET, BONDED, RUBBER, RETAINED	
CHECKED: [Signature]		SPECIFICATION CONTROL DRAWING	
APPROVAL: [Signature]		NASA DRAWING NO. 1006350	
NASA APPROVAL: [Signature]		SCALE 1/1	
MIT APPROVAL: [Signature]		SHEET 1 OF 1	

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN NO 1015404, CLASS 3
- PART MARKING: IDENTIFY PER NO 1002019 WITH THE MANUFACTURER'S SYMBOL, LOT CODE OR NUMBER, AND NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER).
- PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH NO 1002215, CLASS 1, CODE 3.
 - MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING PER NO 1002215.

2. ACCEPTANCE & INSPECTION (100%)

A. MECHANICAL PROPERTIES:

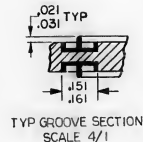
- DIMENSIONS: AS DELINEATED HEREIN.
- MARKING: AS SPECIFIED IN NOTES 1.C AND 1.D.
- COMPRESSION: RUBBER SEAL PORTION SHALL BE CAPABLE OF BEING COMPRESSED TO THE LEVEL OF THE PLATE WITHOUT DAMAGE.
- SURFACE ROUGHNESS $125 \sqrt{\text{PER MIL-STD-10}}$

B. VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING DOCUMENTATION.

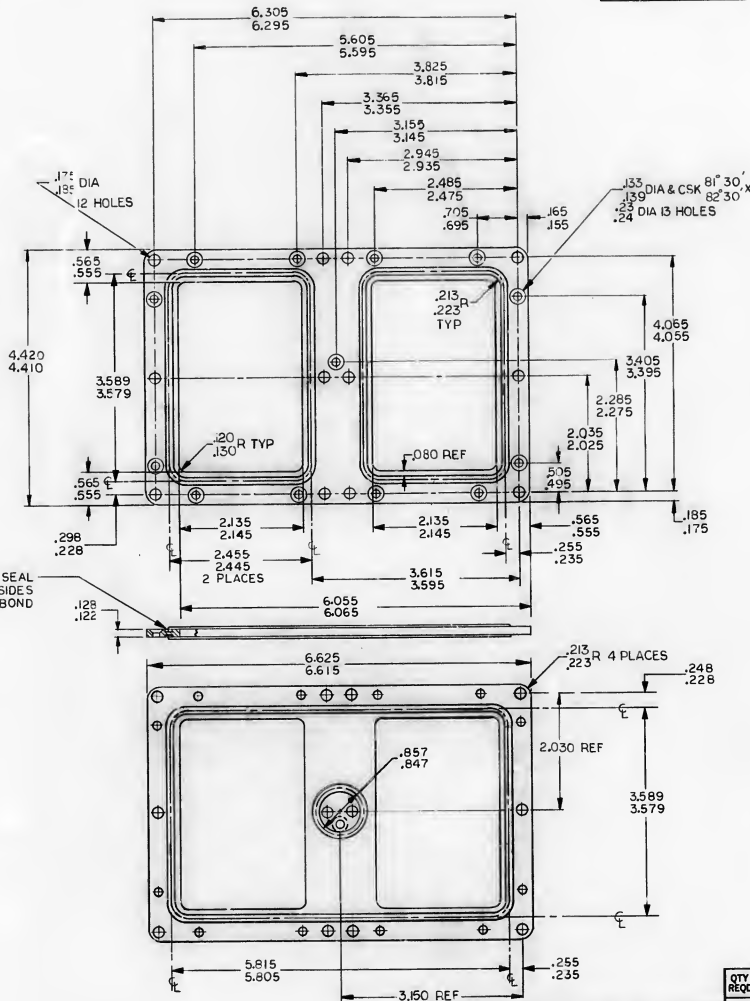
- CERTIFICATE OF COMPLIANCE WITH MATERIAL, HARDNESS AND FINISH REQUIREMENTS.
- CERTIFICATE OF COMPLIANCE WITH 1015404 CLASS 3

3. DESIGN:

- STORAGE LIFE: ONE YEAR MINIMUM (RUBBER GASKET) WHEN STORED AT ORDINARY ROOM CONDITIONS ($77 \pm 5^\circ\text{F}$ AND 50% RH).
- CONSTRUCTION: MACHINED OR PRECISION CAST ALUMINUM PLATE WITH BUTYL RUBBER GASKETS MOLDED IN PLACE.
 - MATERIAL AND FINISH, PLATE: 6061-T6 ALUMINUM ALLOY PER QQ-A-250/11, CHROMATE FILM PER MIL-C-5541 TYPE II, CLASS 3
 - MATERIAL, RUBBER GASKET: BUTYL TYPE RUBBER PER AMS-3238.
 - HARDNESS, RUBBER: 70 ± 5 SHORE A DUROMETER (ASTM D-785).
- SEALING: WHEN COMPRESSED TO THE PLATE LEVEL, THE RUBBER SHALL BE CAPABLE OF SEALING AGAINST A LEAKAGE OF 2×10^{-6} ATM CC/SEC/INCH OF SEAL OF DRY NITROGEN AT A PRESSURE DIFFERENTIAL OF 2 ATMOSPHERES AND A TEMPERATURE OF -10° TO 82°C



SEAL BOTH SIDES
CHEMICAL BOND



PROCURE ONLY FROM APPROVED SOURCES LISTED IN NO 1002034 FOR THIS DRAWING.

1999001

REVISIONS		DATE	APPROVED
SYN	DESCRIPTION		
	INITIAL Release Class A Per TDR 1689	7/10/81	WLL
A	REVISED PER TDR 22131		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
		LIST OF MATERIALS	
		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		GASKET, BONDED, RUBBER, RETAINED	
		SPECIFICATION CONTROL DRAWING	
		CODE IDENT NO. 80230 D	NASA DRAWING NO. 1006351
		SCALE 1/1	WT
		SHEET	OF 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
TOLERANCES ON	DECIMALS	ANGLES
DRAWN	DECIMALS	ANGLES
CHECKED	DECIMALS	ANGLES
APPROVAL		
DO NOT SCALE DRAWING		
MATERIAL		
NEXT ASSY	USED ON	APPLICATION

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE USER OR OTHER PERSON OR ENTITY TO REPRODUCE OR CONVERTING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REQUIREMENTS:

1. GENERAL:

- A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS SPECIFIED IN ND 1015404, CLASS 3.
- C. UNIT PACKAGES AND SHIPPING CONTAINERS SHALL BE MARKED INTERNALLY AND EXTERNALLY, IN ACCORDANCE WITH MIL-STD-129, WITH THE MANUFACTURER'S NAME, PRODUCT IDENTIFICATION, QUANTITY, LOT CODE OR NUMBER, DATE OF MANUFACTURE OR CODE, AND NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER).

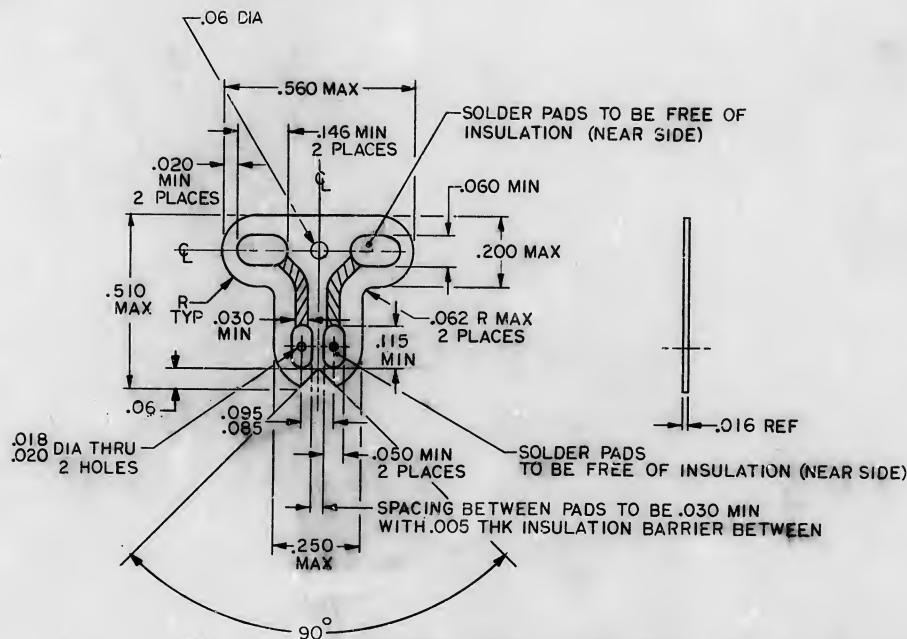
2. ACCEPTANCE AND INSPECTION:

- A. MECHANICAL REQUIREMENTS:
 - (1) DIMENSIONS: AS SHOWN.
- B. ELECTRICAL REQUIREMENTS:
 - (1) CONTINUITY: EACH CONDUCTOR SHALL BE ELECTRICALLY CONTINUOUS BETWEEN ITS TERMINATIONS.
 - (2) DIELECTRIC WITHSTANDING VOLTAGE: 500 VDC (TEST PER MIL-STD-202, METHOD 301), AT 500 VDC.
 - (3) INSULATION RESISTANCE: 100 MEGOHMS MINIMUM (TEST PER MIL-STD-202, METHOD 302)
- C. EACH SHIPMENT OF UNITS SHALL BE ACCOMPANIED BY THE FOLLOWING DATA:
 - (1) CERTIFICATE OF COMPLIANCE WITH ND 1015404.
 - (2) CERTIFICATE OF COMPLIANCE WITH THE DESIGN REQUIREMENTS OF THIS DRAWING.

3. DESIGN:

- A. CONSTRUCTION: THE UNIT SHALL CONSIST OF COPPER FOIL CONDUCTORS, LAMINATED BETWEEN SHEETS OF PLASTIC INSULATING MATERIAL, BACKED BY A SHEET OF GLASS CLOTH, AND HAVING SOLDERABLE CONDUCTOR TERMINATIONS.
- B. MATERIALS:
 - (1) CONDUCTOR: TWO OUNCE (0.0027 THK) COPPER FOIL.
 - (2) INSULATION: PLASTIC FILM, 0.005 THICK, (TRIFLUOROCHLOROETHYLENE (KEL-F) OR FLUOROCALOCARBON (ACLAR)
 - (3) BACKUP SHEET: 001 THICK GLASS CLOTH, AND .002 ACLAR OR KEL-F TO LAMINATE
- C. VOLTAGE RATING: 300 VRMS.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.



REVISIONS					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE
-	-	INITIAL RELEASE CLASS A PER TDR			9-28-65
A		REVISED PER TDRR 25528			3/15/66
B		REVISED PER TDRR 26880	LXB		3/15/66

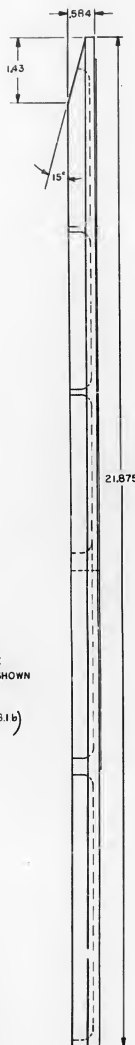
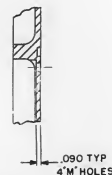
QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN	H. Wong GB	1 SEP 65	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL SPECIFICATION CONTROL DRAWING	
CHECKED	J. P. Thompson	14 SEP 65		
APPROVED				
APPROVED	E. C. Hall	28 SEP 65		
APPROVED			CODE IDENT NO.	SIZE
APPROVED			80230	C
APPROVED			DATE	SCALE NONE
APPROVED				

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm .01 \pm 2 DO NOT SCALE THIS DRAWING MATERIAL		
NEXT ASSY	USED ON	SEE NOTE
APPLICATION		

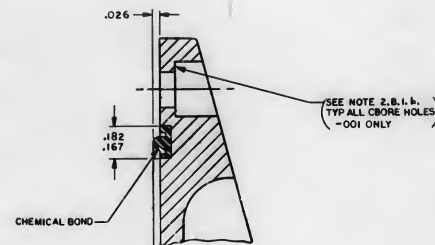
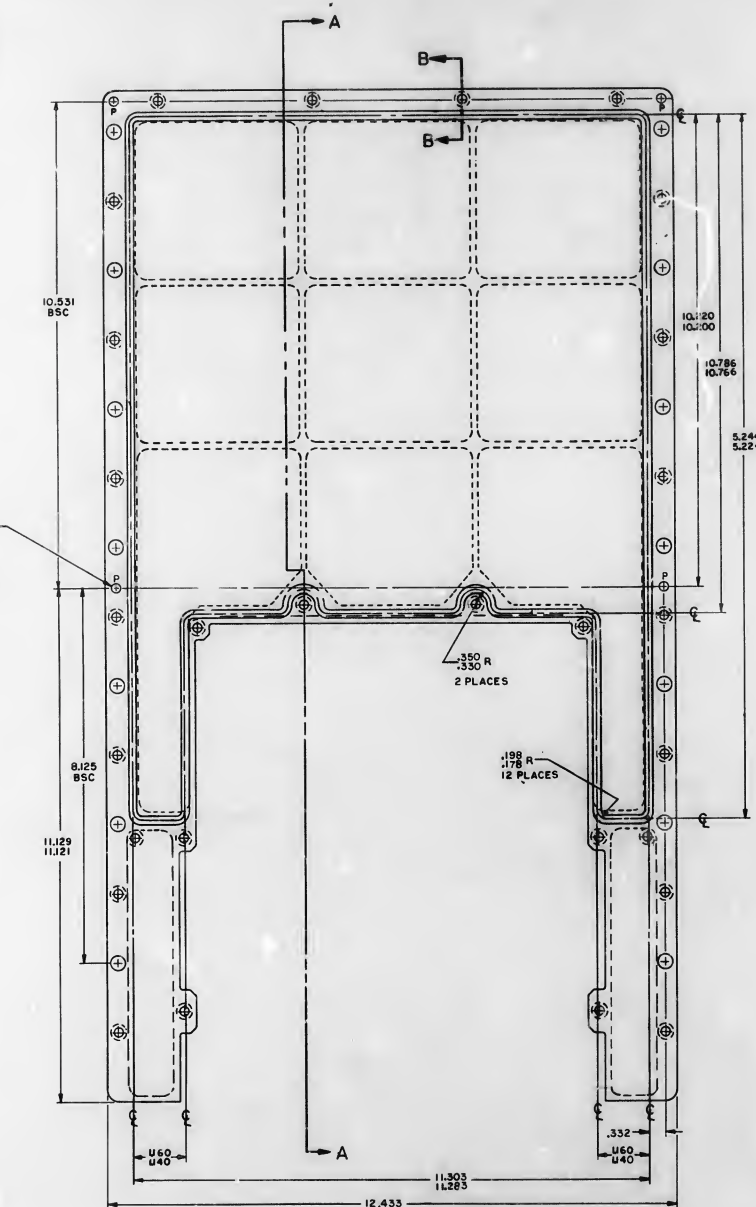
SEE NOTE 2.8.1.b)
(-001 ONLY)

- 1.532 DIA
- .25 R 4 PLACES
- 18.656 REF
- 18.000 BSC
- 16.500 BSC
- 15.000 BSC
- 13.500 BSC
- 12.000 BSC
- 10.500 BSC
- 9.000 BSC
- 25 X .05" TYP
- 7.750 BSC
- 7.500 BSC
- 7.260 BSC
- 6.000 BSC
- 4.500 BSC
- 3.000 BSC
- 2.703 BSC
- 1.500 BSC
- 0.000 BSC
- 1.500 BSC
- 1.500 BSC
- 3.000 REF

SECTION C-C



.301 DIA THRU
4\"/>



SECTION B-B
SCALE 4/1

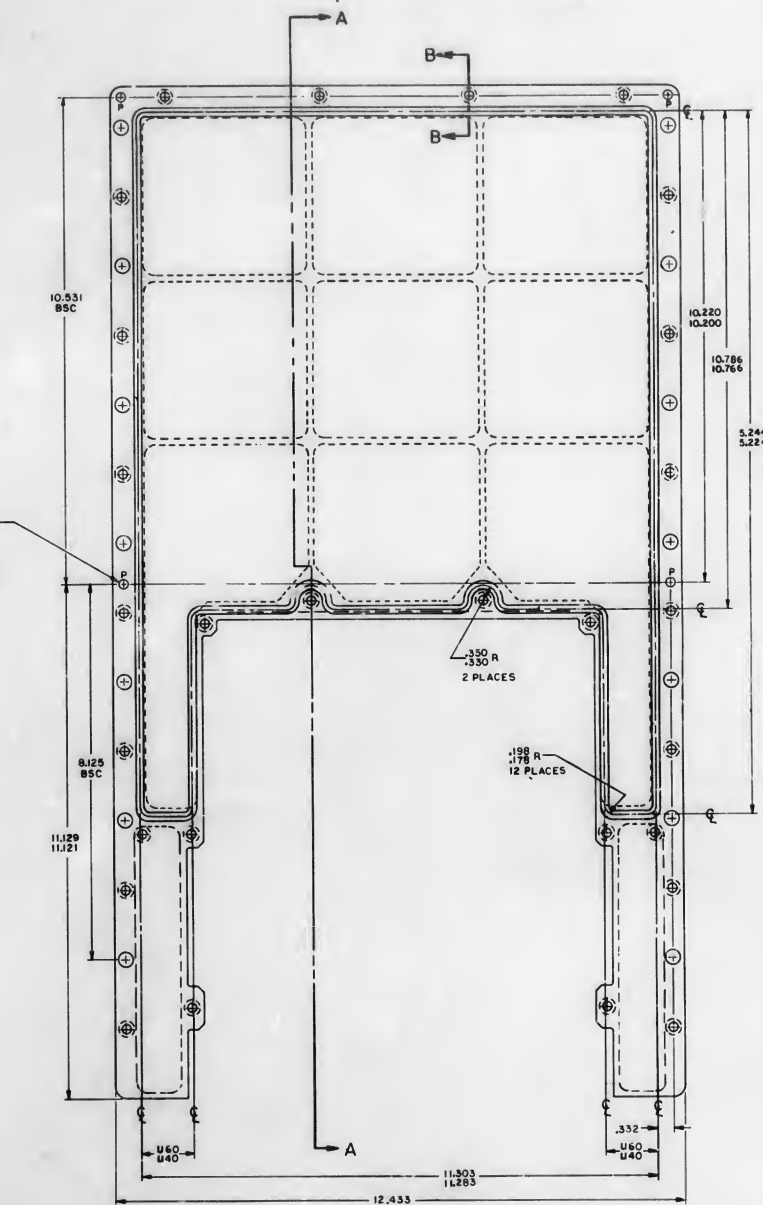
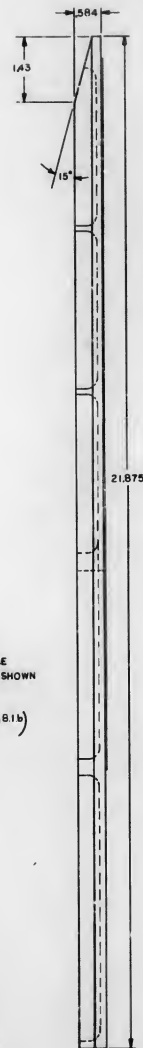
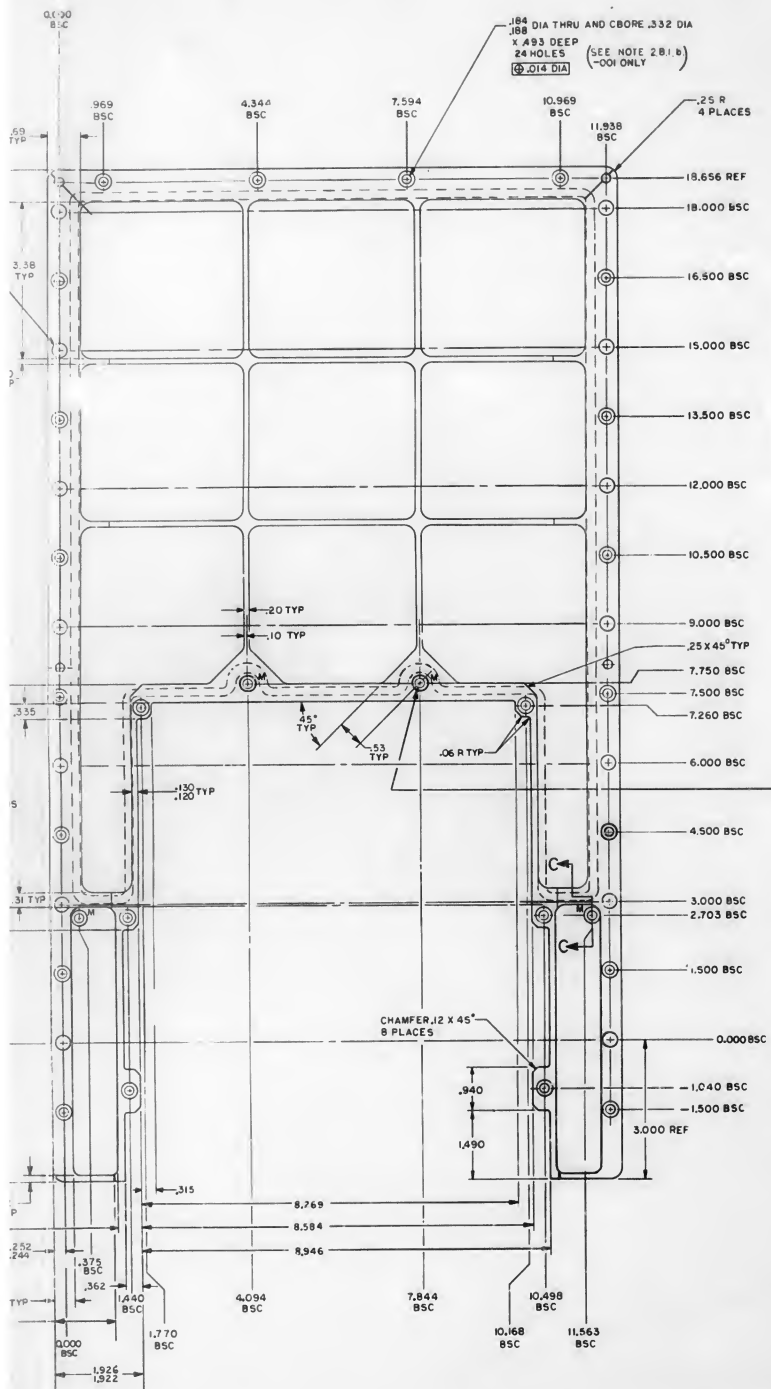
Ⓐ REPLACES REV - WITH CHANGE

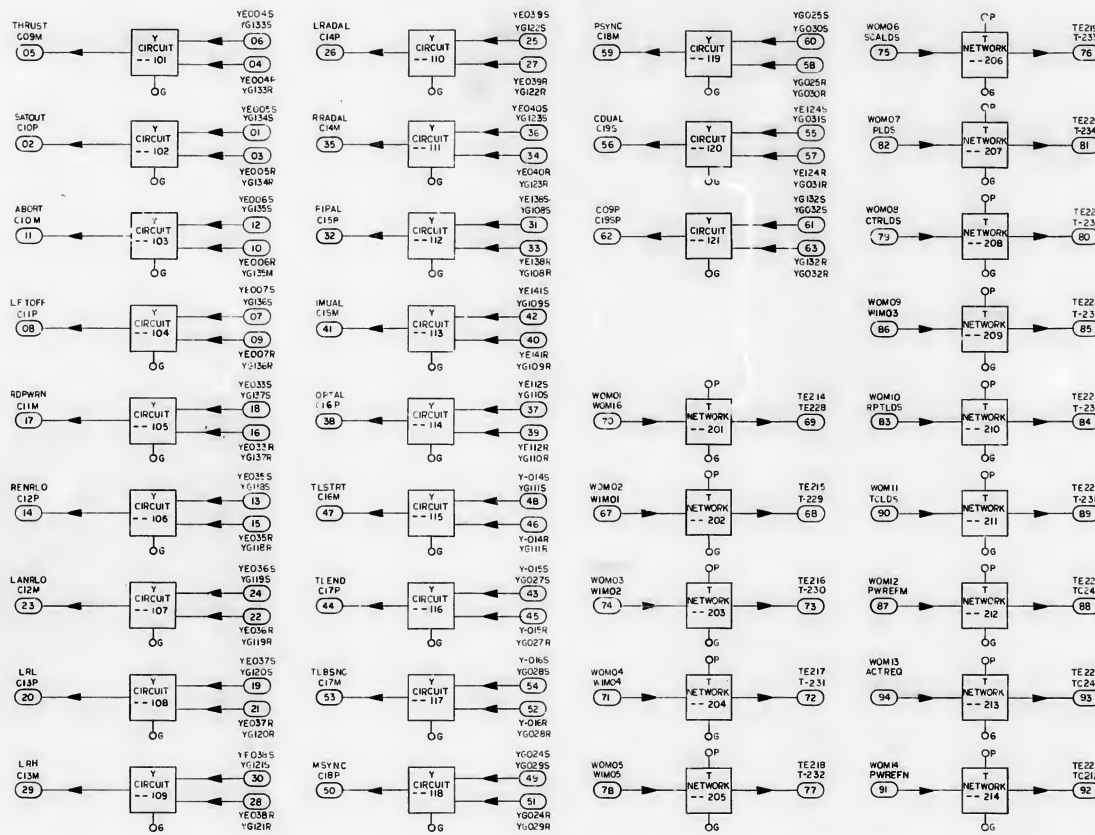
REVISIONS				
REV	DATE	DESCRIPTION	BY	CHK
A	11/11/64	REPLACES REV - WITH CHANGE PER TORR 25936	LDX	LDX
B	11/11/64	REVISED PER TORR 25936	LDX	LDX
C	11/11/64	REVISED PER TORR 26207	LDX	LDX

QTY 1		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND	
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		GASKET, RETAINED		SPECIFICATION CONTROL DRAWING	
DRAWN BY: <i>W. H. H. H.</i>		CHECKED BY: <i>W. H. H. H.</i>		APPROVED BY: <i>W. H. H. H.</i>		DATE: 80230 J	
NEXT REV.		USED ON		SEE REQUIREMENTS		DRAWING NO. 1006378	
APPLICATION		DATE: 80230 J		SHEET 1/1		SHEET 1/1	

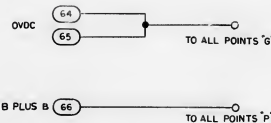
1006378 C

A



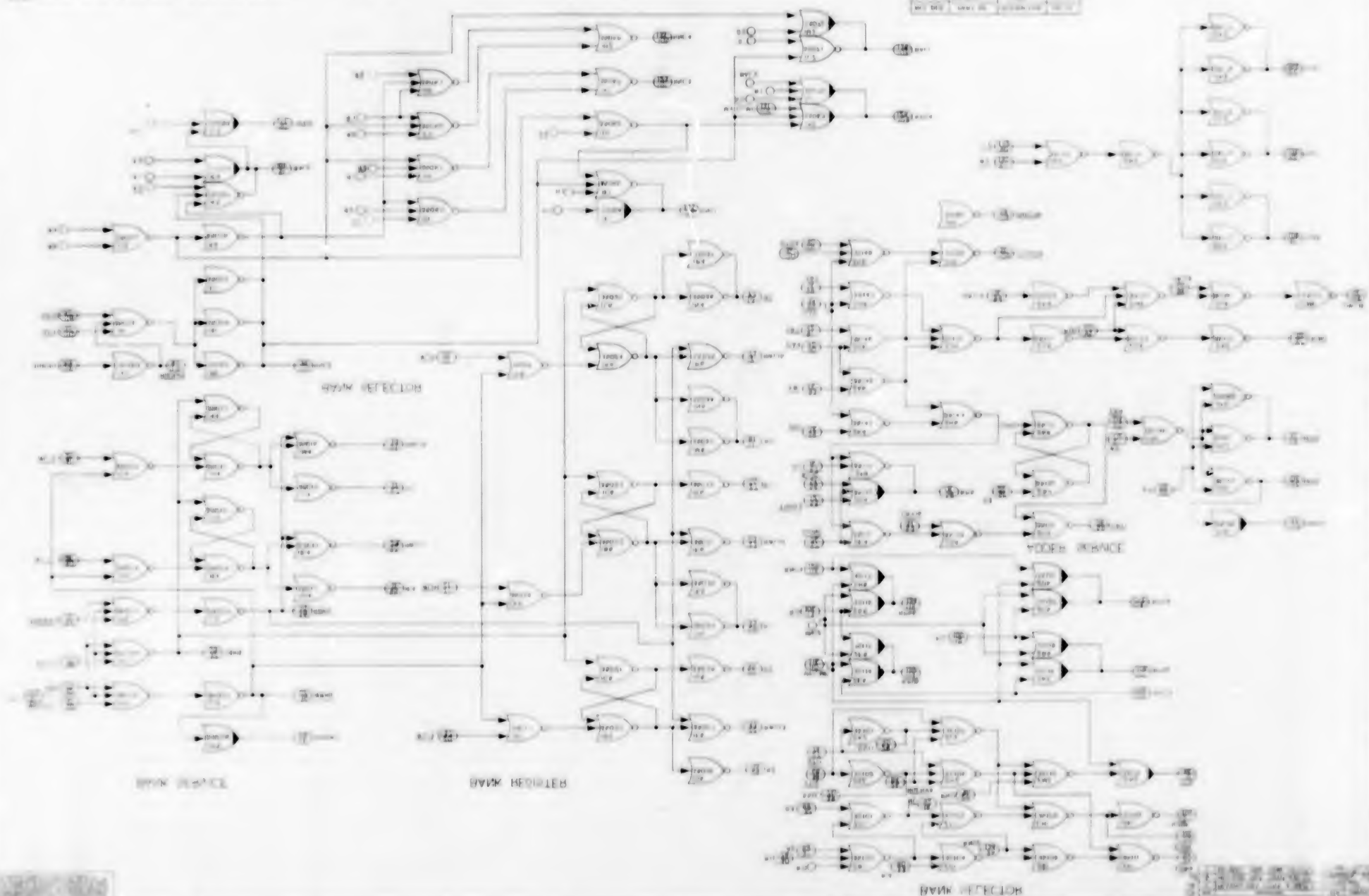


NOTES:
 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. CIRCUIT NUMBERS FOR COMPUTER POSITION 19 ARE PREFIXED BY 71
 3. CIRCUIT NUMBERS FOR COMPUTER POSITION 39 ARE PREFIXED BY 73
 4. UPPER SIGNAL NAME USED IN COMPUTER POSITION 19
 5. LOWER SIGNAL NAME USED IN COMPUTER POSITION 39



REFERENCE CWS:
 1.1006087: TRANSFORMER INPUT CIRCUIT
 2.1006088: INTERFACE CIRCUITS

QTY REQD		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION		FIND NO	
LIST OF MATERIALS							
MANNED SPACECRAFT CENTER HOUSTON, TEXAS							
FLOW DIAGRAM INTERFACE MODULE A19 OR A39							
NADA DRAWING NO. 1006534							
E							
SCALE NONE							
SHEET 1 OF 1							



NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT ASSUMES NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, NOR THE FACT THAT THE GOVERNMENT MAY HAVE PROVIDED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS TO BE DEEMED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PRIVILEGES TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 3.
- MARKING: PACKAGING SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-129 WITH THE QUANTITY ENCLOSED, MANUFACTURER'S NAME AND/OR SYMBOL, NASA DRAWING NUMBER, AND REVISION LETTER.

2. ACCEPTANCE AND INSPECTION:

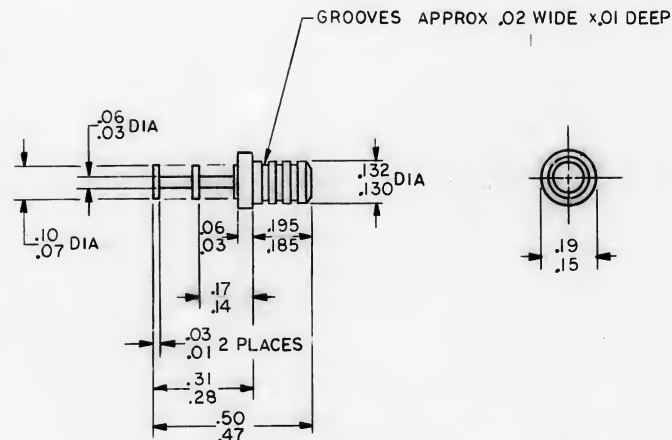
A. MECHANICAL PROPERTIES:

- DIMENSIONS: SEE SKETCH.

3. DESIGN:

- MATERIAL OF TERMINAL LUG: BRASS PER QQ-B-626, COMPOSITION 22, 1/2 HARD.
- FINISH: SOLDER (40 TO 70 PERCENT TIN)
ELECTROPLATE .0003 MINIMUM THICK SILVER.
- MATERIAL OF BASE: POLYTETRAFLUOROETHYLENE PER MIL-P-14078.
- A CERTIFICATE OF COMPLIANCE WITH MATERIAL REQUIREMENTS SHALL BE SUPPLIED WITH EACH SHIPMENT.
- ELECTRICAL CHARACTERISTICS:
 - VOLTAGE RATING: 1000 VOLTS MINIMUM.
 - CAPACITANCE: 0.60 MICROMICROFARADS MAXIMUM.
 - FLASHOVER VOLTAGE (SEA LEVEL): 3000 VOLTS MINIMUM.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>J.D.H. Bennett</i> DATE <i>20 JUN 63</i> CHECKED <i>R. J. Bennett</i> DATE <i>25 JULY 63</i> APPROVAL <i>E. E. Bennett</i> DATE <i>14 AUG 63</i>		TERMINAL, STUD INSULATED SPECIFICATION CONTROL DRAWING	
NASA APPROVAL <i>W. J. Bennett</i> DATE <i>14 AUG 63</i> MIT APPROVAL <i>W. J. Bennett</i> DATE <i>14 AUG 63</i>		CODE IDENT NO. C	NASA DRAWING NO. 1006708
SCALE NONE		WT	SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSIONS, ERRORS, OR INACCURACIES, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

REQUIREMENTS:

1. GENERAL:

- A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN NO 1015404, CLASS 3.
- C. MARKING: PACKAGING SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-125 WITH THE MANUFACTURER'S NAME AND/OR SYMBOL, LOT OR SERIAL NUMBER, DATE OF MANUFACTURE OR CODING, NASA DRAWING NUMBER, REVISION LETTER, DASH NUMBER AND QUANTITY ENCLOSED AND THE PRECAUTIONARY WORDS "FRAGILE", "THIS END UP" AND "DO NOT DROP OR ROLL".
- PACKAGING: WIRE SHALL BE FURNISHED IN A BARREL PACK, THE BARREL DIAMETER SHALL BE 20 INCHES AND THE MINIMUM DIAMETER OF THE COIL SHALL BE 13 INCHES.

2. ACCEPTANCE AND INSPECTION:

A. MECHANICAL REQUIREMENTS:

- (1) INSULATION: COLOR-PER TABLE 1
- (2) DIAMETER OF CONDUCTOR: 0.010 INCH + 0.0003, -0.0001 INCH.
- (3) DIAMETER OVER INSULATION: 0.021 INCH, ± 0.0015 INCH.
- (4) MATERIAL OF CONDUCTOR: SOLID, NON-MAGNETIC, HIGH STRENGTH COPPER ALLOY WITH 98 PERCENT COPPER MINIMUM, SILVER PLATED 40 MICROINCHES MINIMUM, TO 80 MICROINCHES MAXIMUM. A CERTIFICATE OF COMPLIANCE SHALL ACCOMPANY EACH SHIPMENT.
- (5) MINIMUM CONTINUOUS LENGTH: 500 FEET.
- (6) FLAMMABILITY: INSULATION SHALL NOT SUPPORT COMBUSTION.
- (7) STRIP FORCE: THE INSULATION PULL-OFF FORCE FOR A 3 INCH STRIP SHALL BE 8 OUNCES MINIMUM, 5 POUNDS MAXIMUM.

B. ELECTRICAL CHARACTERISTICS:

- (1) DC RESISTANCE: 125 OHMS MAXIMUM PER 1000 FEET.
- (2) VOLTAGE RATING: 300 VOLTS RMS.
- (3) DIELECTRIC STRENGTH: 1000 VOLTS RMS, MINIMUM AFTER 4 HOURS IN WATER 25°C PLUS OR MINUS 5°C, SAMPLE BASIS.
- (4) INSULATION RESISTANCE: 2500 MEGOHMS MINIMUM PER 1000 FEET AFTER 4 HOURS IN WATER 25°C PLUS OR MINUS 5°C.

3. DESIGN:

- A. OPERATING TEMPERATURE: 140°C, MAXIMUM.
- B. TENSILE STRENGTH: 50,000 POUNDS PER SQUARE INCH, MINIMUM. TO 70,000 POUNDS PER SQUARE INCH MAXIMUM.
- C. ELONGATION: 7.5 PERCENT MINIMUM.
- D. SPLICES: SPLICES SHALL HAVE INSULATION STRIPPED 2" ON EACH SIDE AND THE ENDS SHALL BE TIED IN A KNOT.
- E. DIELECTRIC CONSTANT: 3.5 MAXIMUM AT 60 CPS AND 77°F.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN NO 1002034 FOR THIS DRAWING.

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
		FRACTIONS DECIMALS ANGLES
		± ± ±
		DO NOT SCALE THIS DRAWING
		MATERIAL
		SEE NOTES
		HEAT TREATMENT
NEXT ASSY	USED ON	FINAL FINISH
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.		
LIST OF MATERIALS					
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN BY <i>W. J. Hall</i> DATE <i>10/1/63</i>		WIRE, ELECTRICAL, INSULATED SPECIFICATION CONTROL DRAWING			
CHECKED BY <i>J. R. Hall</i>					
APPROVAL <i>E. J. Hall 9/24/63</i>					
NASA APPROVAL <i>W. J. Hall 11/13/63</i>	CODE IDENT NO.	SIZE	NASA DRAWING NO.		
MIT APPROVAL <i>W. J. Hall 13/14/63</i>	SCALE NONE	WT	1006732		
		SHEET	OF 1		

1006732

REVISIONS

04619

SYM	DESCRIPTION	DATE	APPROVAL
—	INITIAL RELEASE CLASS A PER TDRR 04619	13/14/63	WJH
A	REVISED PER TDRR 05627	1/14/64	WJH
B	REVISED PER TDRR 07624	4/14/64	WJH
C	REVISED PER TDRR 24794	22 Dec 65	WJH
D	REVISED PER TDRR 27682	3/5/66	WJH

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REQUIREMENTS:

1. GENERAL

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
- SUPPLIER PROCESS AND QUALITY CONTROL, INCLUDING FINAL INSPECTION, SHALL BE IN ACCORDANCE WITH SPECIFICATION NO 1015404 CLASS 3.
- EACH SHIPPING AND UNIT CONTAINER SHALL BE PERMANENTLY AND LEGIBLY MARKED WITH THE MANUFACTURER'S NAME AND/OR SYMBOL, ITEM NAME, NASA DRAWING NUMBER AND REVISION LETTER, NET CONTENTS AND LOT NUMBER.

2. ACCEPTANCE AND INSPECTION:

- INSULATION ON SLEEVING SHALL BE POLYTETRAFLUOROETHYLENE RESIN, NON-RIGID, AND SHALL CONFORM TO THE ACCEPTANCE REQUIREMENTS OF MIL-I-22129 WITH THE FOLLOWING EXCEPTIONS:

- COLORS SHALL BE IN ACCORDANCE WITH MIL-STD-104 AND AS INDICATED BY THE DASH NUMBER, TABLE 1, OF THIS DRAWING.
- INSIDE DIAMETER AND WALL THICKNESS SHALL BE IN ACCORDANCE WITH TABLE 1 OF THIS DRAWING.

- CRACK AND SPLIT RESISTANCE

THE SLEEVING SHALL NOT SPLIT OR CRACK WHEN TESTED AS FOLLOWS:

ONE 6 INCH SAMPLE OF SLEEVING SHALL BE SELECTED FROM EACH END OF EACH COIL. INSERT A SOFT COPPER WIRE APPROXIMATELY .005 INCH SMALLER IN DIAMETER THAN THE MINIMUM SLEEVING I.D. AND WRAP THIS CONFIGURATION FIVE CLOSE TURNS UPON ITSELF. PREPARED SAMPLES SHALL BE PLACED IN A 550° TO 560°F. OVEN FOR 24 +/- 0 HOURS. REMOVE SAMPLES FROM OVEN, COOL TO ROOM TEMPERATURE AND EXAMINE. REJECT ANY COIL FROM WHICH SAMPLES HAVE BEEN TAKEN THAT SHOW SPLITS OR CRACKS.

3. DESIGN REQUIREMENTS:

- MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF MIL-I-22129 WITH THE EXCEPTION OF COLOR, INSIDE DIAMETER AND WALL THICKNESS WHICH SHALL BE AS SPECIFIED HEREIN.
- INTENDED USE: THIS MATERIAL IS INTENDED FOR USE AS AN ELECTRICAL INSULATION SLEEVING WHICH WILL NOT SUPPORT COMBUSTION AND WHERE OPERATING TEMPERATURES RANGE FROM -65°C TO +260°C
- TENSILE STRENGTH: 2500 P.S.I. MIN 6000 PSI MAX @ 200% ELONGATION (PER FEDERAL TEST METHOD STD. NO. 601, METHOD 4111) MINIMUM RETENTION OF INITIAL VALUE 95% AFTER AGING 96 HOURS AT 250° C
- OPERATING TEMPERATURE RANGE: -65°C TO +260°C.
- BREAKDOWN VOLTAGE: (MINIMUM VALUE REQUIRED VOLTS @ 60 CYCLES RMS) WALL THICKNESS

.009	11.500
.012	14.600
.016	16.300
.020	17.000

Ⓒ REPLACES REV (F) WITH CHANGE

PROCURE ONLY FROM APPROVED SOURCES
LISTED ON ND1002034 FOR THIS DRAWING

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
		FRACTIONS DECIMALS ANGLES
		± ± ±
		DO NOT SCALE THIS DRAWING
		MATERIAL
		SEE NOTE
		HEAT TREATMENT
		N/A
NEXT ASSY	USED ON	FINAL FINISH
		N/A
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. DWS. NO. CONTRACT		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>AGLapin</i> DATE <i>5-22-64</i> CHECKED <i>G. Martz</i> APPROVAL <i>G. Mayo</i> <i>5/24/64</i> APPROVAL <i>J. J. ...</i> <i>5/24/64</i>		INSULATION SLEEVING ELECTRICAL SPECIFICATION CONTROL DRAWING	
NASA APPROVAL <i>W. Lach</i> <i>5/24/64</i>		CODE IDENT NO.	NASA DRAWING NO.
MIT APPROVAL <i>J. Nagel</i> <i>5/24/64</i>		SIZE C	1006776
		SCALE NONE	WT
		SHEET 1 OF 2	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY, NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT HAS FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSES THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERS ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

TABLE I

AWG SIZE	LB/FT CALC	DIMENSIONS		DASH NO. COLOR-WHITE	DASH NO. COLOR-BLACK	DASH NO. COLOR-BROWN	DASH NO. COLOR-RED	DASH NO. COLOR-ORANGE	DASH NO. COLOR-YE. LOW	DASH NO. COLOR-GREEN	DASH NO. COLOR-BLUE	DASH NO. COLOR-VIOLET	DASH NO. COLOR-GRAY
		I. D.	WALL THICKNESS										
1	.021	.311-.289	.016 .024	1	26	51	76	101	126	151	176	201	226
2	.019	.278-.258		2	27	52	77	102	127	152	177	202	227
3	.017	.249-.229		3	28	53	78	103	128	153	178	203	228
4	.015	.224-.204		4	29	54	79	104	129	154	179	204	229
5	.014	.198-.182		5	30	55	80	105	130	155	180	205	230
6	.012	.178-.162		6	31	56	81	106	131	156	181	206	231
7	.011	.158-.144		7	32	57	82	107	132	157	182	207	232
8	.010	.141-.129		8	33	58	83	108	133	158	183	208	233
9	.007	.124-.114	.013 .019	9	34	59	84	109	134	159	184	209	234
10	.003	.112-.102		10	35	60	85	110	135	160	185	210	235
11	.003	.101-.091		11	36	61	86	111	136	161	186	211	236
12	.003	.089-.081		12	37	62	87	112	137	162	187	212	237
13	.002	.080-.072		13	38	63	88	113	138	163	188	213	238
14	.002	.072-.064		14	39	64	89	114	139	164	189	214	239
15	.002	.067-.057		15	40	65	90	115	140	165	190	215	240
16	.002	.061-.051		16	41	66	91	116	141	166	191	216	241
17	.002	.054-.045		17	42	67	92	117	142	167	192	217	242
18	.002	.049-.040		18	43	68	93	118	143	168	193	218	243
19	.002	.044-.036		19	44	69	94	119	144	169	194	219	244
20	.002	.039-.032	.010 .014 .007 .011	20	45	70	95	120	145	170	195	220	245
22	.002	.029-.025		21	46	71	96	121	146	171	196	221	246
24	.002	.027-.020		22	47	72	97	122	147	172	197	222	247
26	.001	.020-.016		23	48	73	98	123	148	173	198	223	248
28	.001	.017-.013		24	49	74	99	124	149	174	199	224	249
30	.001	.014-.010		25	50	75	100	125	150	175	200	225	250

THIS SHEET ADDED

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±
		DO NOT SCALE THIS DRAWING MATERIAL
		SEE NOTE
		HEAT TREATMENT N/A
NEXT ASSY	USED ON	FINAL FINISH N/A
APPLICATION		N/A

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. DWG. NO. CONTRACT		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>AP</i> DATE <i>12/1/69</i> CHECKED <i>G. Mayo</i> 5-22-69 APPROVAL <i>G. Mayo</i> 5/24/69 APPROVAL <i>J. P. Duggan</i> 5/22/69		INSULATION SLEEVING ELECTRICAL SPECIFICATION CONTROL DRAWING	
NASA APPROVAL <i>W. L. Lusk</i> 5/14/69		CODE IDENT NO. C	NASA DRAWING NO. 1006776
MIT APPROVAL <i>J. P. Duggan</i> 5/22/69		SCALE NONE	WT SHEET 2 OF 2

MANNED SPACECRAFT CENTER			
HOUSTON, TEXAS			
INSULATION TAPE, ELECTRICAL			
THERMOSETTING ADHESIVE			
SPECIFICATION CONTROL DRAWING			
CODE IDENT NO. —	SIZE C	NASA DRAWING NO. 1006806	
SCALE NONE	WT	SHEET	OF

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REVISIONS					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE
D		REPLACES REV C WITH CHANGES PER TORR			3-9-65
		17169			WK

REQUIREMENTS

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- SUPPLIER PROCESS AND QUALITY CONTROL INCLUDING FINAL TESTING SHALL BE IN ACCORDANCE WITH SPECIFICATION ND1015404, CLASS 3.
- EACH CONTAINER OF THE COMPOUND OR UNIT CARTON, IF PROCURED IN COLLAPSIBLE TUBES, SHALL BE PERMANENTLY AND LEGIBLY MARKED WITH THE MANUFACTURER'S NAME AND/OR SYMBOL, ITEM NAME, NASA DRAWING NUMBER AND REVISION LETTER, NET CONTENTS, LOT NUMBER AND DATE OF MANUFACTURE.

2. ACCEPTANCE AND INSPECTION:

- MATERIAL: THE COMPOUND SHALL BE A SILICONE OIL BLENDED TO A PASTE-LIKE CONSISTENCY WITH INORGANIC SILICA AND METAL OXIDES.
 - COLOR: OPAQUE WHITE
 - CONSISTENCY: WORKED AND MEASURED WITHIN ONE MINUTE AFTER WORKING PENETRATION 250 TO 320 WHEN TESTED PER ASTM D217.
 - SPECIFIC GRAVITY: 2.3 MINIMUM AT $77^{\circ} \pm 2^{\circ}\text{F}$ WHEN TESTED PER METHOD 4184 OF FED. STD. 141 OR EQUIVALENT.
 - THERMAL CONDUCTIVITY: $0.0015 \text{ gm/cal/sec/cm}^2/\text{C}^{\circ}/\text{CM}$
 - BLEED: THE BLEED SHALL BE 0.5% MAXIMUM AND THE EVAPORATION SHALL BE 1.0% MAXIMUM WHEN TESTED PER METHOD 321.1 OF FED. STD 791 OR EQUIVALENT EXCEPT THAT:
 - THE CONE SHALL BE SUSPENDED FROM A ROD SUPPORTED ON THE EDGE OF THE BEAKER, WITHOUT COVERING THE BEAKER.
 - THE OVEN SHALL BE MAINTAINED AT $200^{\circ} \pm 5^{\circ}\text{C}$.
 - THE TEST TIME SHALL BE 24 HOURS AT 200°C WHEN TESTED USING EQUIPMENT PER MIL-I-8660.
 - EVAPORATION: LESS THAN 1.0% AFTER 24 HOURS AT 200°C WHEN TESTED USING EQUIPMENT PER MIL-I-8660.

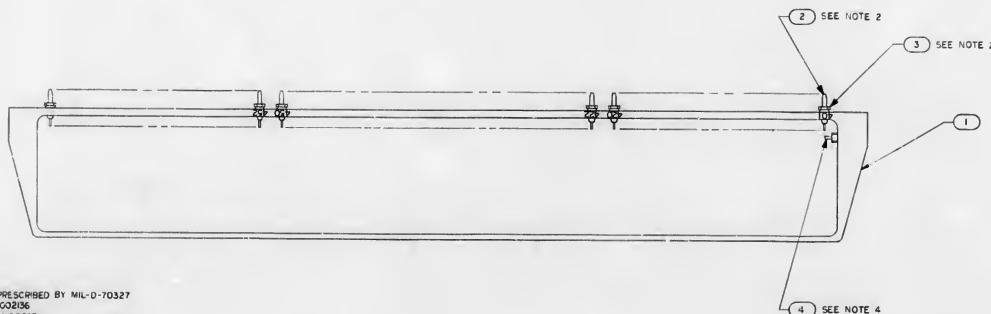
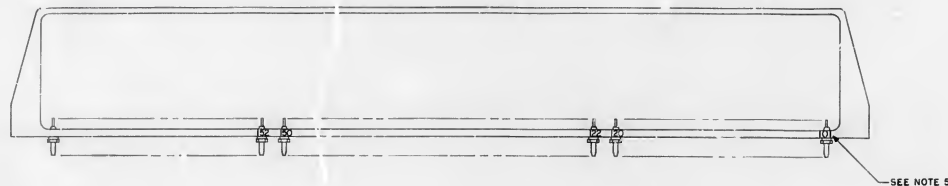
3. DESIGN:

- OPERATING TEMPERATURE RANGE: -70°C TO $+200^{\circ}\text{C}$.
- SERVICE LIFE: 1 YEAR MINIMUM OF TEMPERATURE UP TO 200°C WITHOUT DETERIORATION.
- SHELF LIFE: THE MATERIAL SHALL HAVE NOT LESS THAN ONE YEAR SHELF LIFE REMAINING WHEN RECEIVED BY THE PURCHASER AND STORED BELOW 100°F IN UNOPENED CONTAINER.
- INTENDED USE: THIS MATERIAL IS INTENDED FOR USE IN INCREASING HEAT TRANSFER BETWEEN MATING SURFACES. A TYPICAL THERMAL CONDUCTIVITY FOR THIS MATERIAL IS $0.0010 \text{ GRAM-CALORIES /SEC/CM}^2/\text{C}^{\circ}/\text{CM}$ AS AN ELECTRICAL INSULATOR, THE VOLUME RESISTIVITY IS $2.5 \times 10^{15} \text{ OHM-CM}$ (TYPICAL)

(D) REPLACES REV (C) WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>A. Mart</i> 3-9-65		SILICONE COMPOUND		
CHECKED <i>W. Simpson</i> 3-9-65		THERMOCONDUCTIVE		
APPROVED <i>W. Hoff</i> 4 Mar 65		SPECIFICATION CONTROL DRAWING		
APPROVED MIT <i>W. Hoff</i> 9 Mar 65		CODE IDENT NO.	SIZE	DRAWING NO.
APPROVED <i>W. Hoff</i> 3 Feb 65			C	1006879
DATE		SCALE	NONE	SHEET OF

REVISIONS		DATE	APPROVED
1	REVISED PER TDR 17742	JM	8/26/65



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. ASSEMBLE FIND NO 2 AND FIND NO 3 TO FIND NO 1 PER ND100206
 3. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
 4. MOUNTING TORQUE FOR FIND NO 4 TO BE 15-20 INCH OUNCES
 5. MARK DB / 06 HIGH WHITE CHARACTERS PER ND1002019 AND ND1002122
 - *TYPE II CLASS 2 USING INK PER 1006271-1

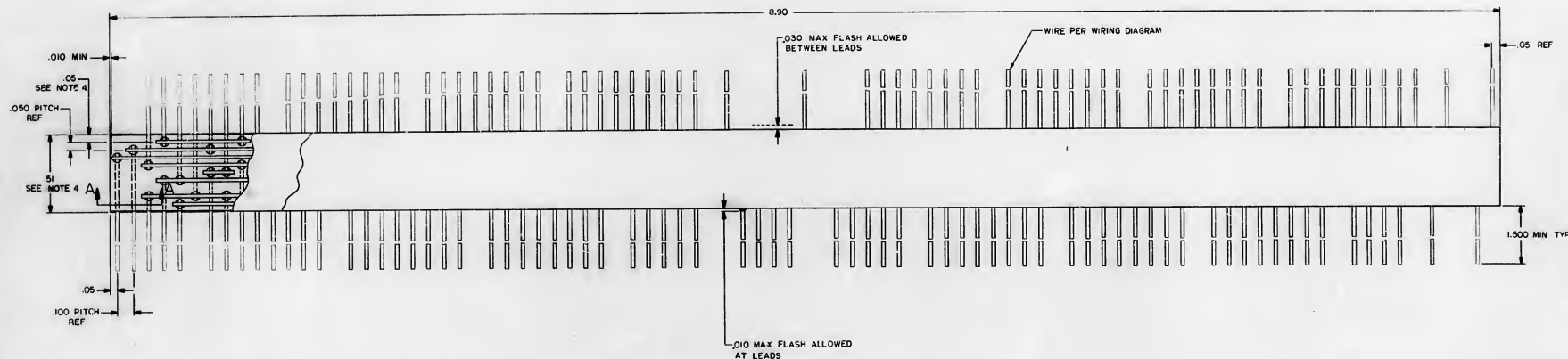
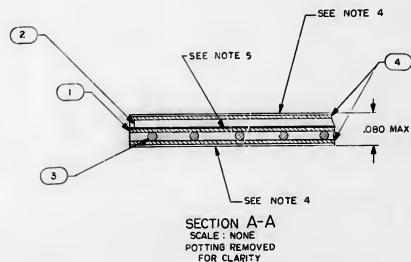
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMAL VALUES ARE IN 1/16 FRACTIONS VALUES ARE IN 1/8 TOLERANCES ON FRACTIONS DECIMALS ANGLES APPROVED BY <i>[Signature]</i> DATE <i>8/26/65</i> DO NOT SCALE THIS DRAWING MATERIAL		MIT INSTRUMENTATION LAB CHECKED BY <i>[Signature]</i> DATE <i>8/26/65</i> APPROVED BY <i>[Signature]</i> DATE <i>8/26/65</i>
2003020	WAT ASSY	USED ON
APPLICATION		

QTY	PART OR IDENTIFYING NO.	DESCRIPTION	FIND NO.
1	2004038	TERMINAL THREADED	2
276	1006775	INSULATOR W/POST-MALE MINATURE	3
276	1006782-1	CONTACT W/POST-MALE MINATURE	3
1	2004025	HEADER LOGIC MODULE	1

LIST OF MATERIALS	
MIT INSTRUMENTATION LAB CHECKED BY <i>[Signature]</i> DATE <i>8/26/65</i> APPROVED BY <i>[Signature]</i> DATE <i>8/26/65</i>	MANHATTAN SPACECRAFT CENTER HOUSTON TEXAS
HEADER HOUSING ASSY LOGIC MODULE	
APPROVED BY <i>[Signature]</i> DATE <i>8/26/65</i>	CODE IDENT NO. E DRAWING NO. 2003000
APPROVED BY <i>[Signature]</i> DATE <i>8/26/65</i>	SCALE 2/1 SHEET 1 OF 1

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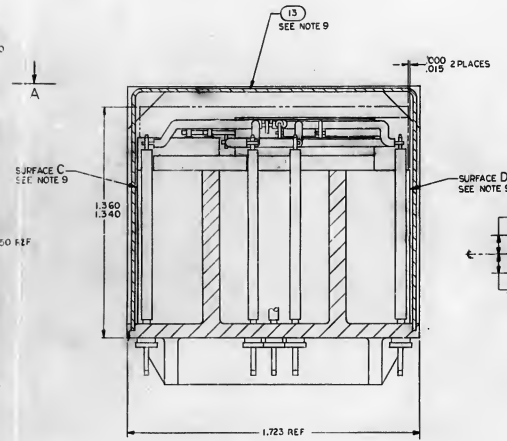
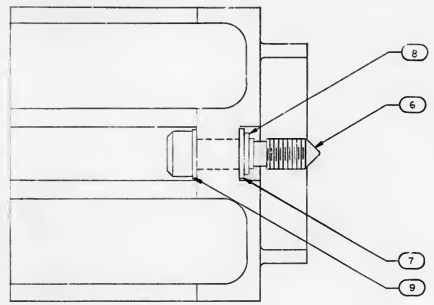
REVISIONS 1/2/78
BY DATE APPROVAL



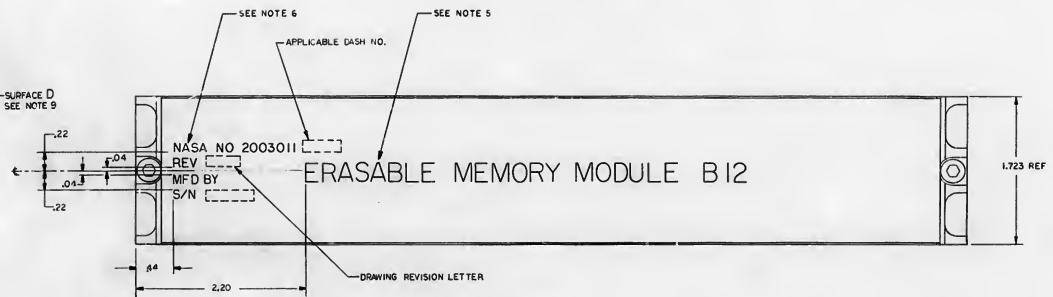
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. AR DENOTES AS REQUIRED
 3. WELD PER ND1002005
 4. ASSEMBLE PER ND1002260
 5. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2003043		WIRING DIAGRAM	REF
AR	1008335-002	GLASS TAPE	4
AR	1008757-B	WIRE, ELECTRICAL	3
AR	1008757-I	WIRE, ELECTRICAL	2
I	2004008-011	INSULATOR, MAT	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± .01 ± .01 ± .01 DO NOT SCALE THIS DRAWING MATERIAL		INSTRUMENTATION LAB DRAWN BY: [Signature] DATE: 1/2/78 CHECKED BY: [Signature] DATE: 1/2/78 APPROVAL: [Signature] DATE: 1/2/78 APPROVAL: [Signature] DATE: 1/2/78	
2003043 REVISION USED ON APPLICATION		MANNED SPACECRAFT CENTER HOUSTON, TEXAS MATHIX ASSEMBLY SENSE AMPLIFIER MODULE CODE IDENT NO: 80230 E DATA DRAWING NO: 2003005 SCALE: 1/1 SHEET 1 OF 1	



FIN 20I REF
FIN 50I REF
FIN 30I REF



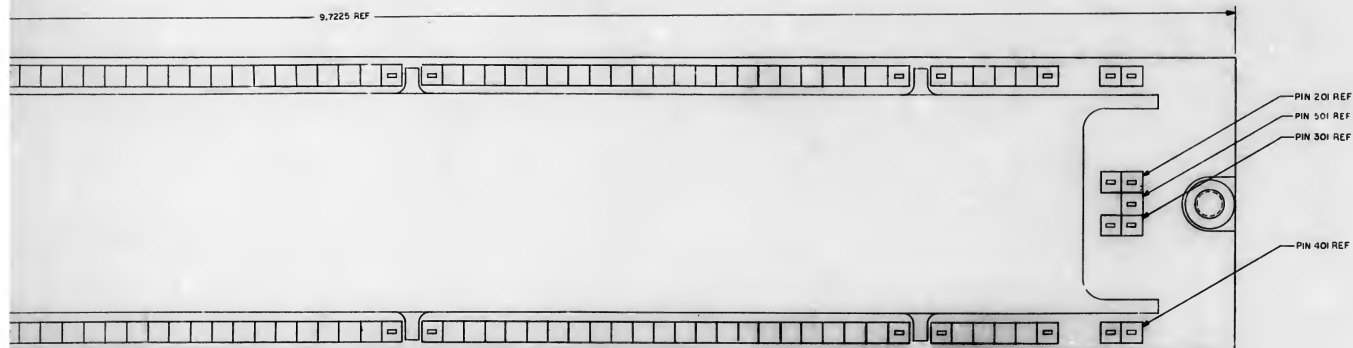
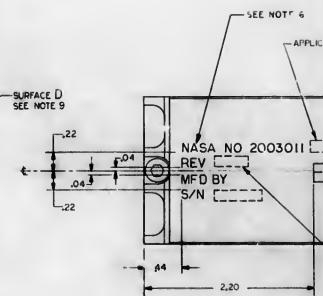
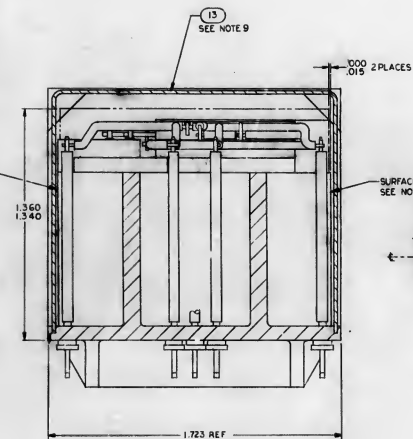
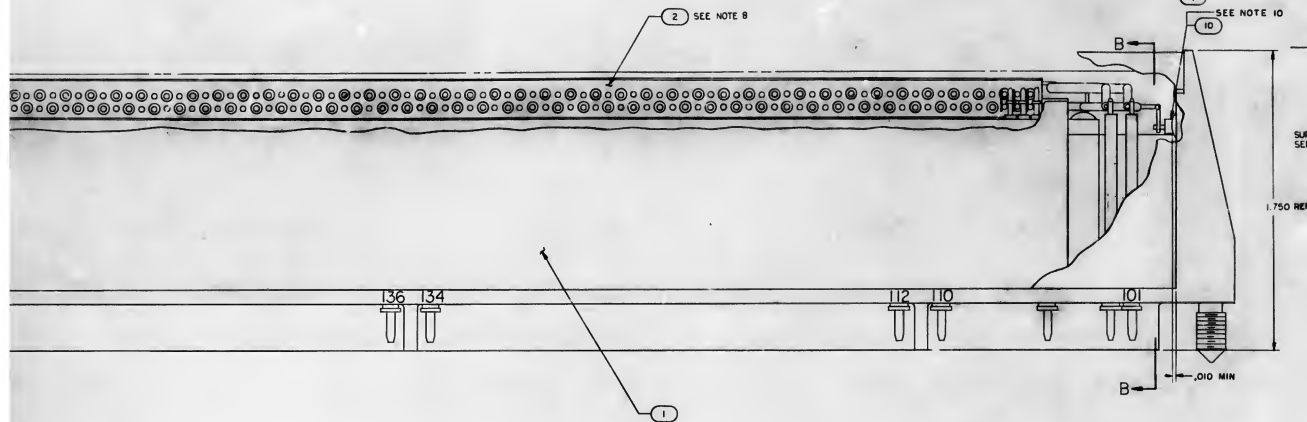
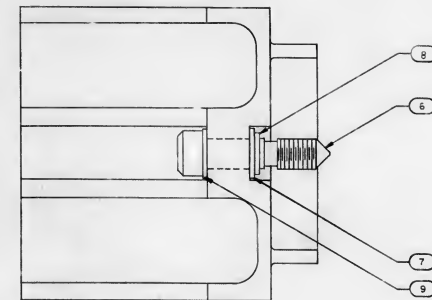
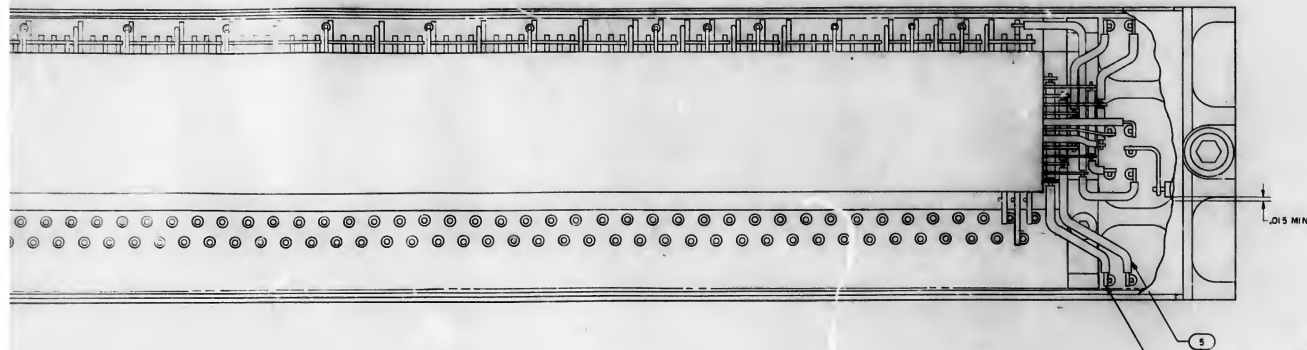
VIEW A-A
SCALE 2/1

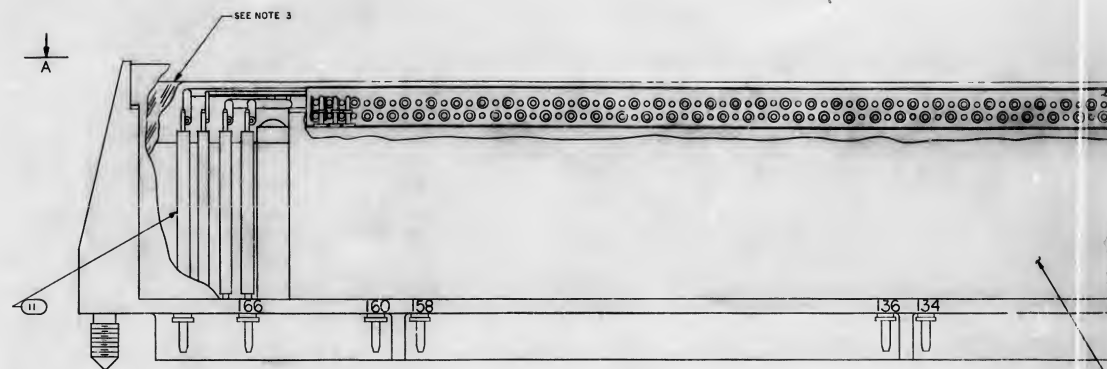
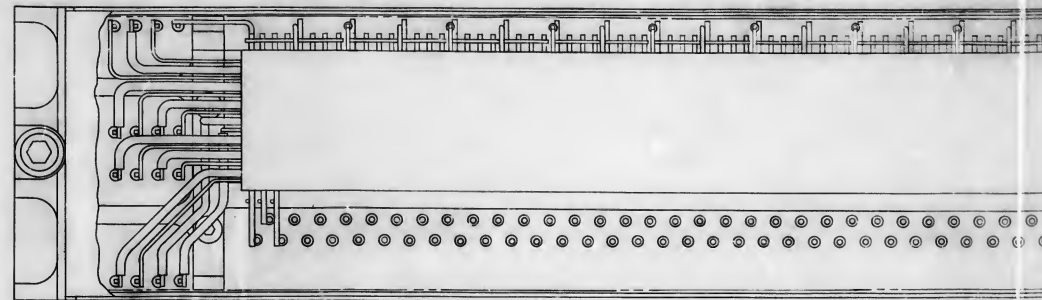
FIN 40I REF

QTY	PART OR IDENTIFYING NO.	DESCRIPTION OR DEN. REF.	REF.
1	2003006	SCHEMATIC	13
1	2004083	COVER	13
1	1000083-2	SCREW, BUFFING-INT	10
AR	1006776-20	INSULATION SLEEVING ELECTRICAL	11
1	2004059	TERMINAL, THREADED	10
2	1004546-1	WASHER FLAT	8
2	MS16633-4015	RING RETAINING EXTERNAL "E"	8
2	1004545-3	WASHER FLAT	7
2	1004579-1	SCREW JACKING	6
AR	1006776-21	INSULATION SLEEVING	5
AR	1006757-8	WIRE ELECTRICAL	4
2	10000000	200-10000000-0000-0000	3
1	2003012-011	DICKE BLOCK ASSY ERASABLE MEMORY	2
1	2003009-011	CORE STACK ASSY ERASABLE MEMORY	1

NASA APPROVAL DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]		NASA APPROVAL DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]	
NEXT ASSY USED ON APPLICATION		CODE BENT NO. 80230J SCALE 2/1 DRAWING NO. 2003011 SHEET 1 OF 1	

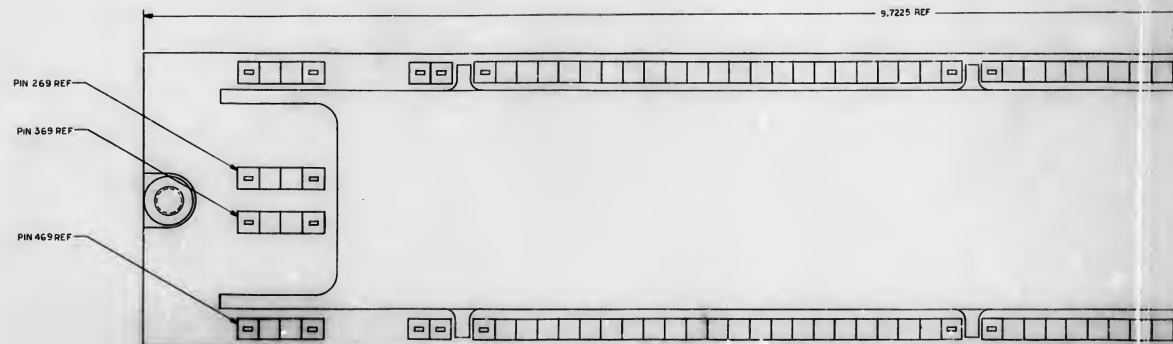
2003011 A

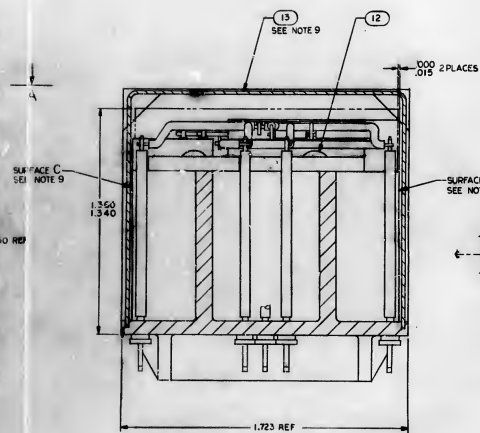
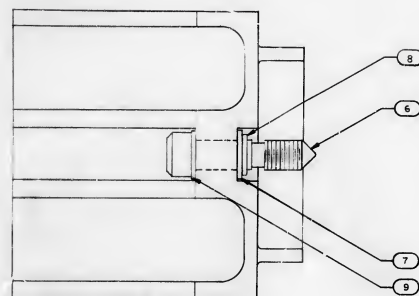




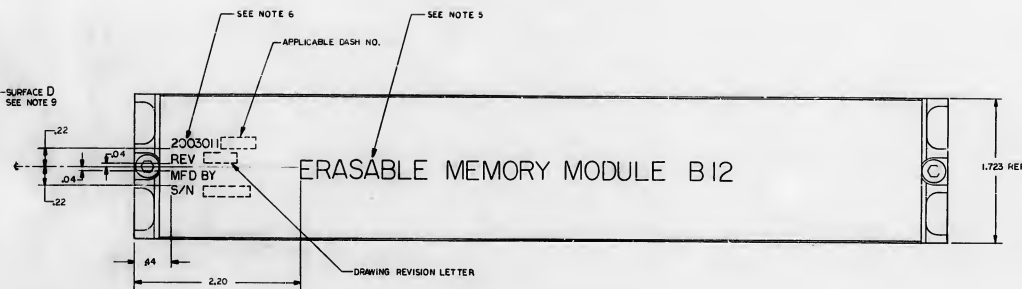
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND1002005
3. ENCAPSULATE PER ND1002009, METHOD F
4. AR DENOTES AS REQUIRED
5. MARK .26/.24 HIGH WHITE CHARACTERS PER ND1002019 AND ND1002022 TYPE II CLASS 2 USING MARKING INK 1006271-1
6. MARK .10/.8 HIGH WHITE CHARACTERS PER ND1002019 AND ND1002022 TYPE II CLASS 2 AND SERIALIZE PER ND1002023 USING MARKING INK 1006271-1
7. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002009
8. SEAL FIND NO.2 AT ALL MATING SURFACES PER ND1002004, TYPE XI
9. BOND FIND NO.13 TO FIND NO.11 ALONG GROOVES & TO SURFACES C & D PER ND1002004, TYPE XI
10. SEAL FIND NO.10 TO FIND NO.1 PER ND1002004, TYPE XI
11. MOUNTING TORQUE FOR FIND NO.10 TO BE 15 TO 20 INCH OUNCES





SECTION B-B

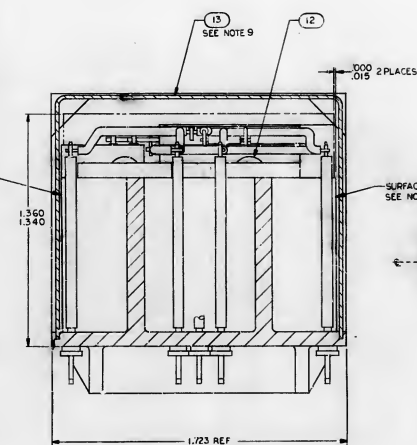
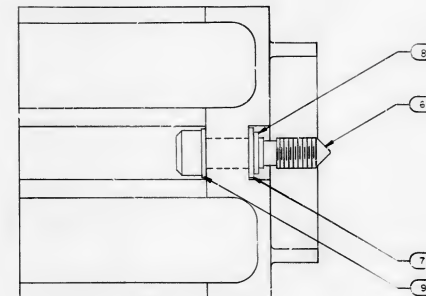
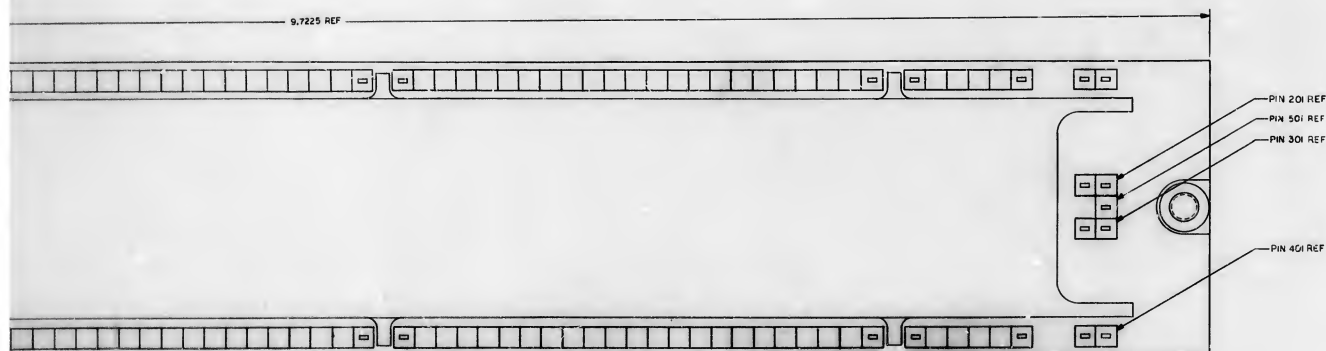
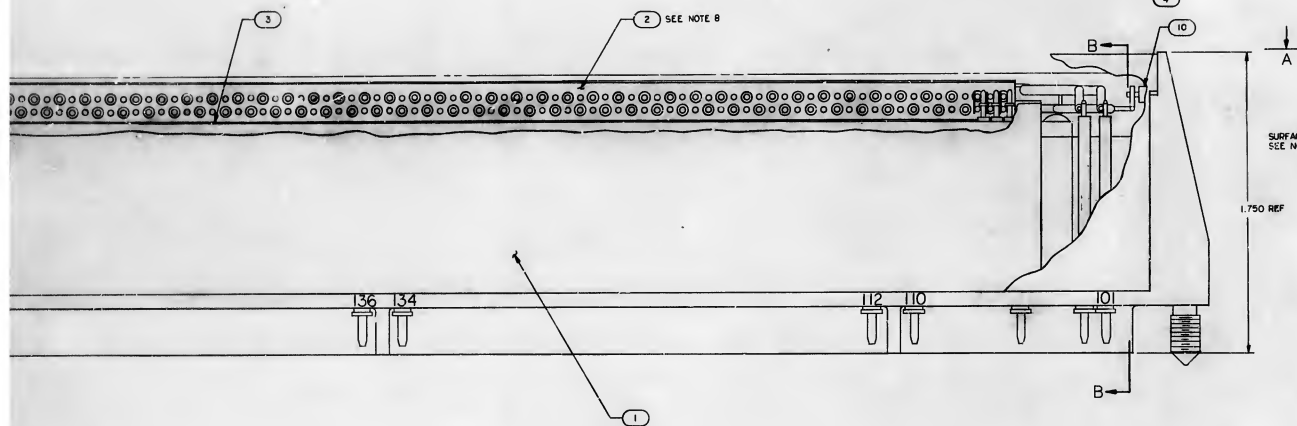
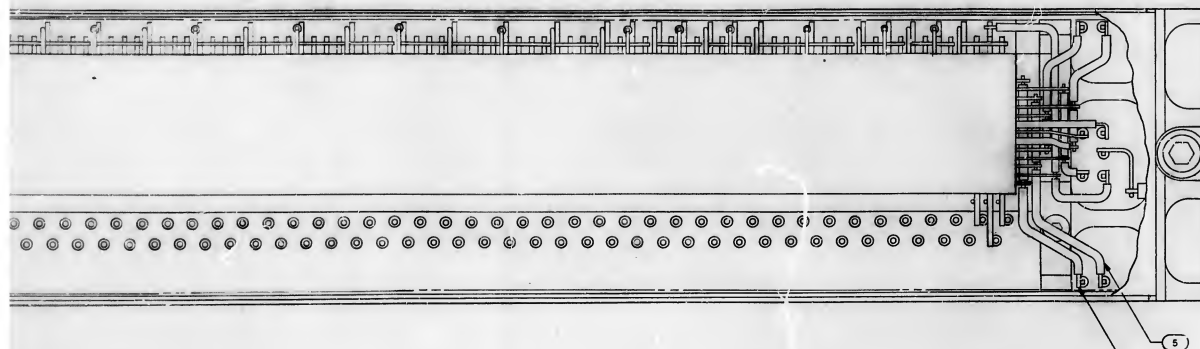
VIEW A-A
SCALE 2/1

PHI .201 REF
PHI .501 REF
PHI .301 REF

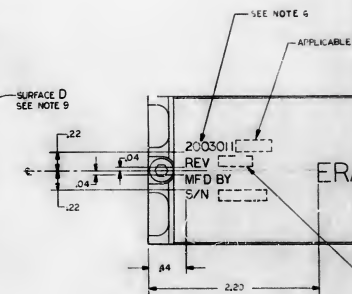
PHI .401 REF

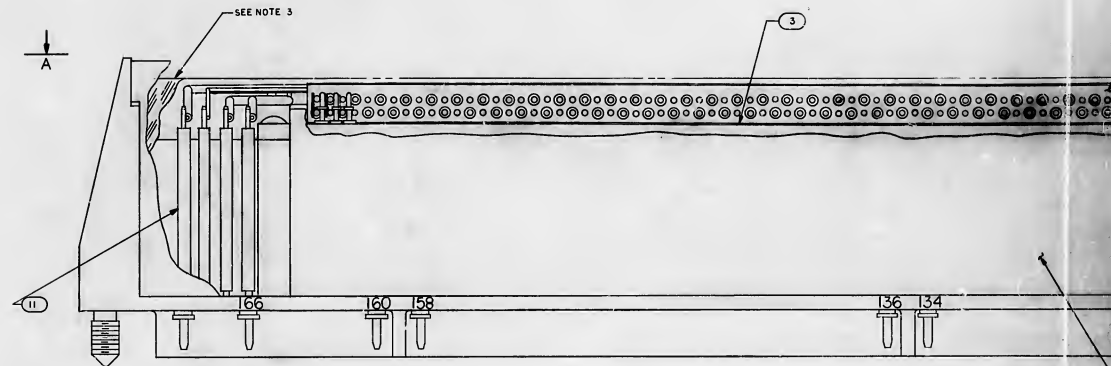
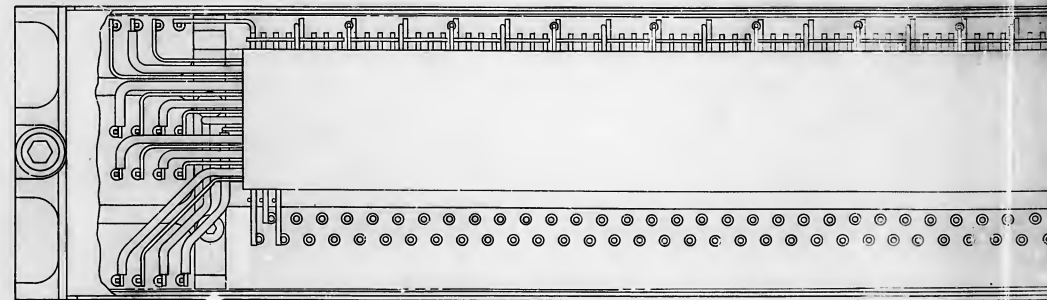
QTY	PART OR IDENTIFYING NO.	DESCRIPTION OR USE	FIG. NO.
1	2005006	SCHEMATIC	REF
1	1004083	COVER	13
2	1000033-2	SCREW, BUTTON HD	2
AR	1006776-20	INSULATION SLEEVING ELECTRICAL	11
1	2004035	TERMINAL, THREADED	10
2	1004545-1	WASHER FLAT	9
2	MS 16633-4015	RING RETAINING EXTERNAL 'E'	8
2	1004545-3	WASHER FLAT	7
2	1004579-1	SCREW JACKING	6
AR	1006776-21	INSULATION SLEEVING	5
AR	1006773-9	WIRE ELECTRICAL	4
AR	1006804-5	225 LS SOURCE SOLDER TAPE	3
1	2003012-011	DIODE BLOCK ASSY ERASABLE MEMORY	2
1	2003003-01	COKE STACK ASSY ERASABLE MEMORY	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS = .005 = .010 DO NOT SCALE THIS DRAWING MATERIAL		CITY INSTRUMENTATION LAB HOUSTON, TEXAS DRAWN BY: <i>[Signature]</i> DATE: <i>[Date]</i> CHECKED BY: <i>[Signature]</i> DATE: <i>[Date]</i> APPROVED BY: <i>[Signature]</i> DATE: <i>[Date]</i>	
HEAT TREATMENT		MANNED SPACECRAFT CENTER HOUSTON, TEXAS ERASABLE MEMORY B 12 ASSEMBLY	
NEXT ASBY	USED ON	PART APPROVAL: <i>[Signature]</i> PART NO.: 80230 J PART DATE: <i>[Date]</i>	PART NO.: 2003011 PART DATE: <i>[Date]</i>



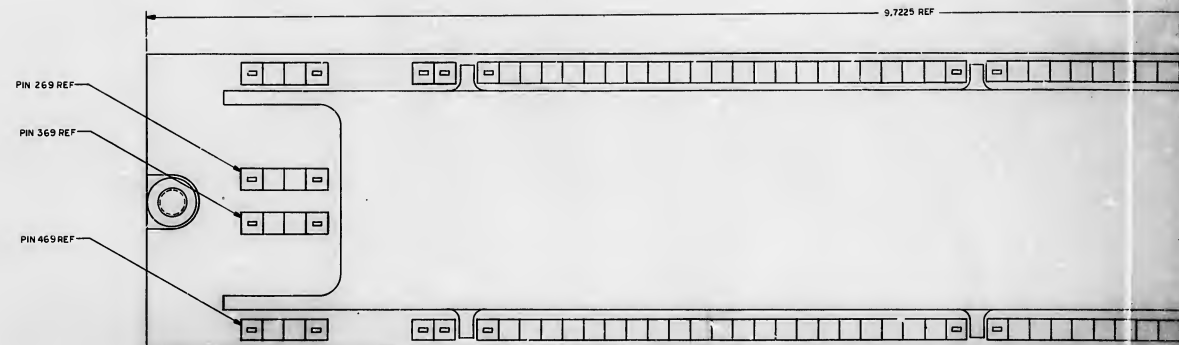
SECTION B-B

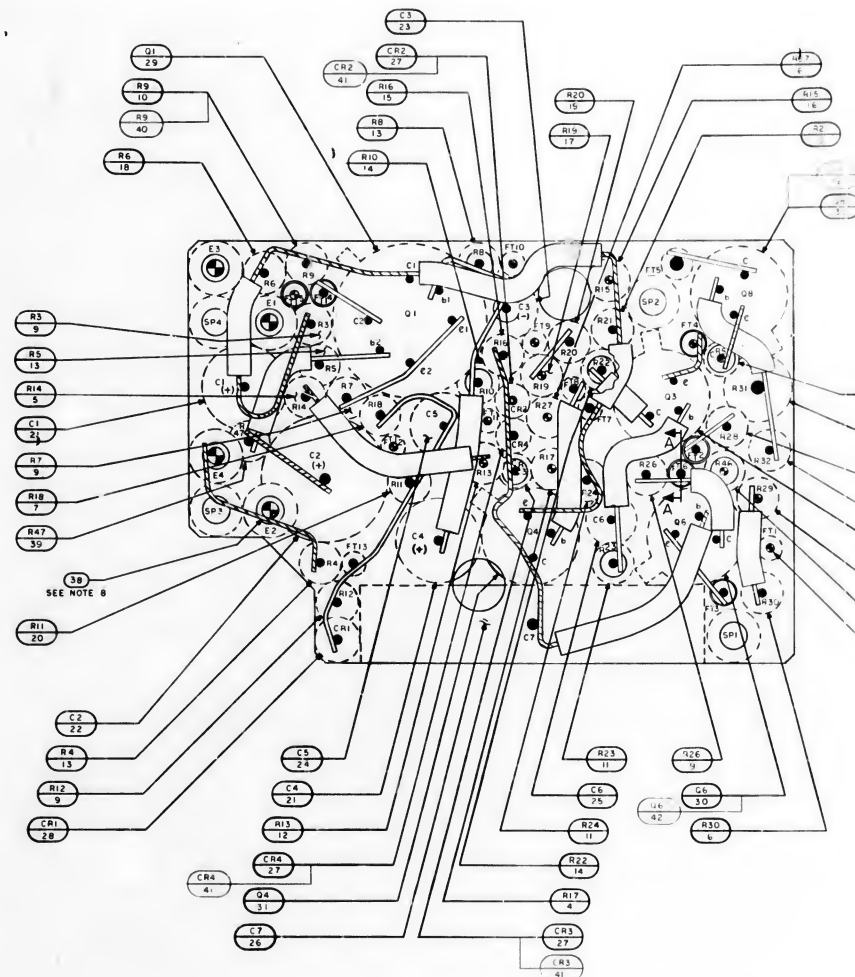
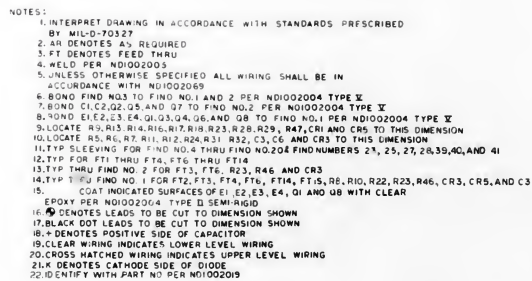




NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND1002005
3. ENCAPSULATE PER ND1002009, METHOD F
4. AR DENOTES AS REQUIRED
5. MARK .25/.26 HIGH WHITE CHARACTERS PER ND1002019 AND ND1002022 TYPE II CLASS 2 USING MARKING INK PER 1006271-1
6. MARK .10/.16 HIGH WHITE CHARACTERS PER ND1002019 AND ND1002022 TYPE II CLASS 2 AND SERIALIZE PER ND1002023 USING MARKING INK PER 1006271-1
7. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002009
8. BOND FIND NO. 2 AT ALL MATING SURFACES PER ND1002004, TYPE III
9. BOND FIND NO. 13 TO FIND NO. 1 ALONG GROOVES & TO SURFACES C & D PER ND1002004, TYPE XI



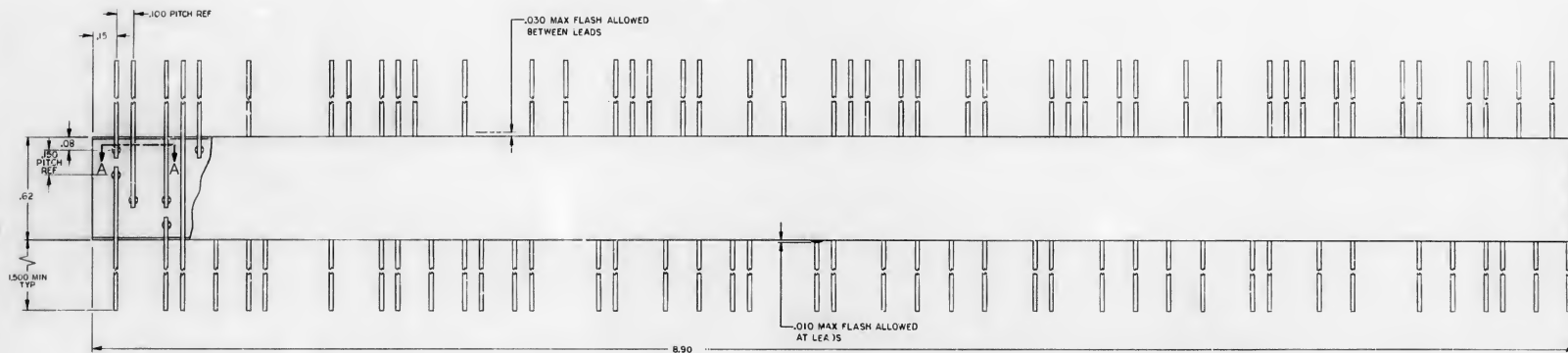




C

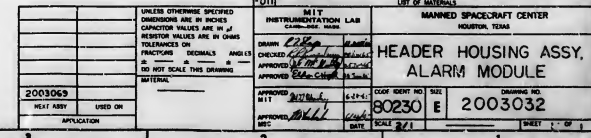
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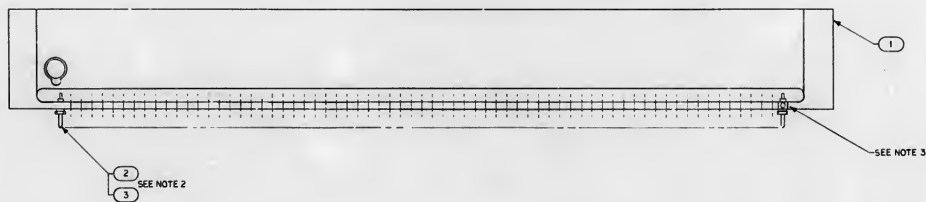
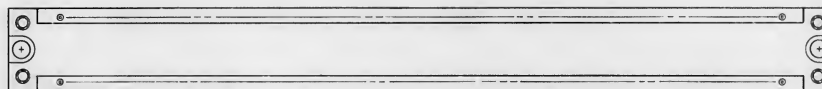
		UNLESS OTHERWISE SPECIFIED		MIT		DATE OF REVISION	
		DIMENSIONS ARE IN INCHES		INSTRUMENTATION LAB		MANHATTAN SPACECRAFT CENTER	
		CAPACITOR VALUES ARE IN P.F.		LABORATORY		HOUSTON, TEXAS	
		RESISTOR VALUES ARE IN OHMS		CHECKED BY <i>John L. Smith</i>		APPROVED BY <i>John L. Smith</i>	
		TOLERANCES ARE:		DRAWN BY <i>John L. Smith</i>		TITLE	
		RESISTORS: PERCENTS AND ANGLES		APPROVED BY <i>John L. Smith</i>		AGC POWER SUPPLY	
		CAPACITORS: PERCENTS		DATE <i>10-2-61</i>		CONTROL CIRCUIT	
		DIMENSIONS: PERCENTS		BY <i>John L. Smith</i>		SUB - ASSY	
		NOT TO SCALE THIS DRAWING		REVISION			
		MATERIALS		APPROVED BY <i>John L. Smith</i>		CODE IDENT NO	
				DATE <i>10-2-61</i>		TSS	
				DRAWING NO		DRAWING NO	
				80230		J	
				SHEET 1 OF 1		2003029	
				DATE		DATE	
				10-2-61		10-2-61	
				SHEET 1 OF 1			



- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. AR DENOTES AS REQUIRED
 3. WELD PER ND 1002005
 4. ASSEMBLE PER NC
 5. APPLY FIND NO. 5 BEFORE ASSEMBLY OF FIND NO. 2
 6. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

1	2050015	WIRING DIAGRAM	RE
2			
3			
4	AR 1006318	ADHESIVE	5
5	AR 1006335	WIRE	6
6	AR 1006343	WIRE ELECTRICAL	7
7	AR 1003757-1	GLASS ELECTRICAL	8
8	1 204047	INSULATOR, MATRIX	9
9	NO IDENTIFY NO	NO IDENTIFICATION OF DISCUSSION	10
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- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND1002136
 3. MARK .08 (.25) HIGH WHITE CHARACTERS PER ND1002019 AND ND 1002122 TYPE II CL 55.2 USING INK 1006271-1
 4. PARTIAL HOLE PATTERN SHOWN FOR ORIENTATION PURPOSES ONLY
 5. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

2/03026	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR USE .005 IN .01 RESISTOR VALUE .01 IN .05 TOLERANCES ON FRACTIONS DECIMALS ANGLES AS NOTED SCALE THIS DRAWING
NEXT ASSY USED ON	
APPLICATION	

136	1006775	INSULATOR V-RAPPOST-MALE, MINAT	3
138	1006785-1	CONTACT WRAPOST-MALE, MINAT	2
1	2004820	HEADS, TUBING	1
QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB CAMERON, MISS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DESIGNY <i>[Signature]</i> <i>[Signature]</i>		CHECKED <i>[Signature]</i> <i>[Signature]</i>	
APPROVED <i>[Signature]</i> <i>[Signature]</i>		APPROVED <i>[Signature]</i> <i>[Signature]</i>	
DATE <i>[Signature]</i> <i>[Signature]</i>		DATE <i>[Signature]</i> <i>[Signature]</i>	
CODE IDENT NO.	SIZE	DRAWING NO.	
E	2003033	2003033	
DATE	SCALE 2/1	SHEET 1 OF 1	

1

PART NO.	VALUE	PART NO.	VALUE
1006750-39	2.0K	1006750-42	2.7K
-124	2.3K		
-125	2.55K		
-42	2.7		
-43	3K		
-44	3.3K		
-45	3.6K		
-46	3.9K		
-47	4.3K		
-48	4.7K		
-49	5.1K		
-50	5.6K		
-51	6.2K		
-52	6.8K		
-136	7.15K		
-53	7.3K		
-137	7.85K		
-54	8.2K		
-138	8.65K		
-55	9.1K		
-139	9.55K		
-56	10K		
-140	10.5K		
-57	11K		
-141	11.5K		
-58	12K		
-142	12.5K		
-59	13K		
-143	14K		
-60	15K		
-144	15.5K		
-61	16K		
-145	17K		
-62	18K		
-146	19K		
-63	20K		
-147	21K		
1006750-64	22K		
SEE NOTE 14	∞		

PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-26	2.85K
-109	535	-43	3K
-26	560	-127	3.5K
-110	590	-44	3.3K
-27	620	-128	3.45K
-111	650	-45	3.6K
-28	680	-129	3.75K
-112	715	-46	3.9K
-29	750	-130	4.1K
-113	785	-47	4.3K
-30	820	-131	4.5K
-114	865	-48	4.7K
-31	910	-132	4.9K
-115	955	-49	5.1K
-32	1K	-133	5.55K
-116	1.05K	-50	5.6K
-33	1.1K	-134	5.9K
-117	1.15K	-51	6.2K
-34	1.2K	-135	6.8K
-118	1.25K	-52	6.8K
-35	1.3K	-136	7.15K
-119	1.4K	-53	7.3K
-36	1.5K	-137	7.85K
-120	1.55K	-54	8.2K
-37	1.6K	-138	8.65K
-121	1.7K	-55	9.1K
-38	1.8K	-139	9.55K
-122	1.9K	-56	10K
-39	2.0K	-140	10.5K
-123	2.1K	-57	11K
-40	2.2K	-141	11.5K
-124	2.3K	-58	12K
-41	2.4K	-142	12.5K
-125	2.55K	-59	13K
1006750-42	2.7K	-143	14K
SEE NOTE 14	∞	-144	15K

R7 AND R8

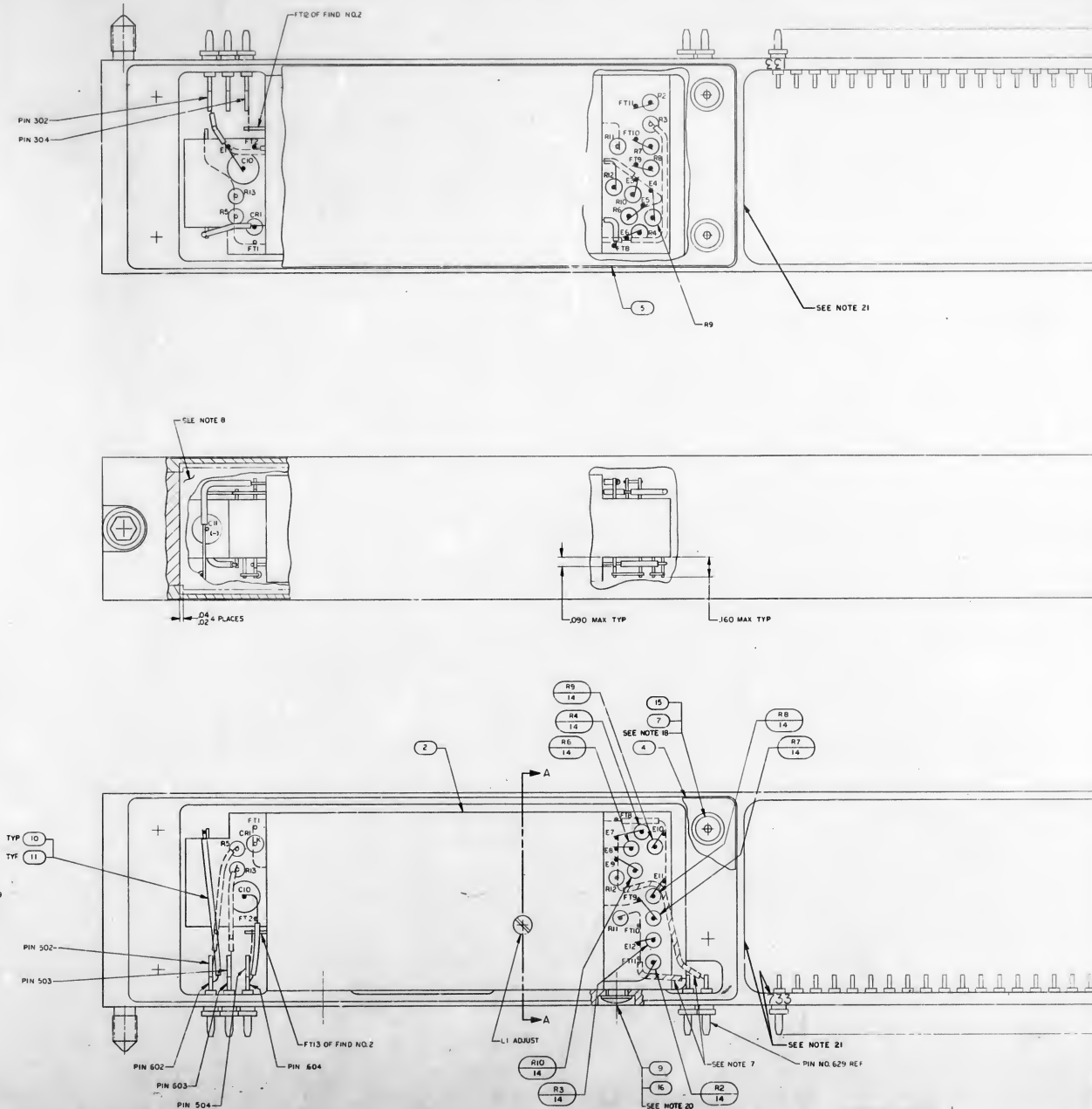
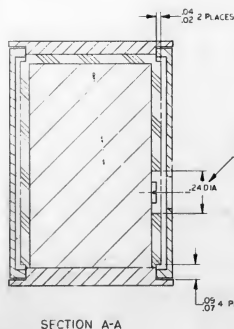
PART NO.	VALUE	PART NO.	VALUE
1006750-53	7.5K		
-106	1.05K	-107	7.85K
-33	1.1K	-54	8.2K
-107	1.15K	-108	8.65K
-34	1.2K	-55	9.1K
-108	1.25K	-109	9.55K
-35	1.3K	-110	10K
-109	1.4K	-111	10.5K
-36	1.5K	-57	11K
-110	1.55K	-112	11.5K
-37	1.6K	-58	12K
-111	1.7K	-113	12.5K
-38	1.8K	-59	13K
-112	1.9K	-114	13.5K
-39	2.0K	-60	15K
-113	2.1K	-115	15.5K
-40	2.2K	-61	16K
-114	2.3K	-116	17K
-41	2.4K	-62	18K
-115	2.55K	-117	19K
-42	2.7K	-63	20K
1006750-136	7.15K	-118	21K
SEE NOTE 14	∞	-64	22K

PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-134	5.9K
-109	535	-51	6.2K
-26	560	-52	6.8K
-110	590	-53	7.3K
-27	620	-136	7.15K
-111	650	-54	8.2K
-28	680	-137	7.85K
-112	715	-55	9.1K
-29	750	-138	8.65K
-113	785	-56	10K
-30	820	-139	9.55K
-114	865	-57	11K
-31	910	-140	10.5K
-115	955	-58	12K
-32	1K	-141	11.5K
-116	1.05K	-59	13K
-33	1.1K	-142	12.5K
-117	1.15K	-60	15K
-34	1.2K	-143	14K
-118	1.25K	-61	16K
-35	1.3K	-144	15.5K
-119	1.4K	-62	18K
-36	1.5K	-145	17K
-120	1.55K	-63	20K
-37	1.6K	-146	19K
-121	1.7K	-64	22K
-38	1.8K	-147	21K
-122	1.9K	-65	24K
-39	2.0K	-148	23K
-123	2.1K	-66	27K
-40	2.2K	-149	25.5K
-124	2.3K	-67	30K
-41	2.4K	-150	28.5K
-125	2.55K	-68	32K
1006750-50	5.6K	-69	36K
SEE NOTE 14	∞	-70	39K

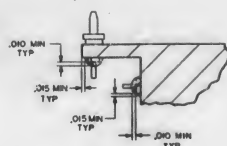
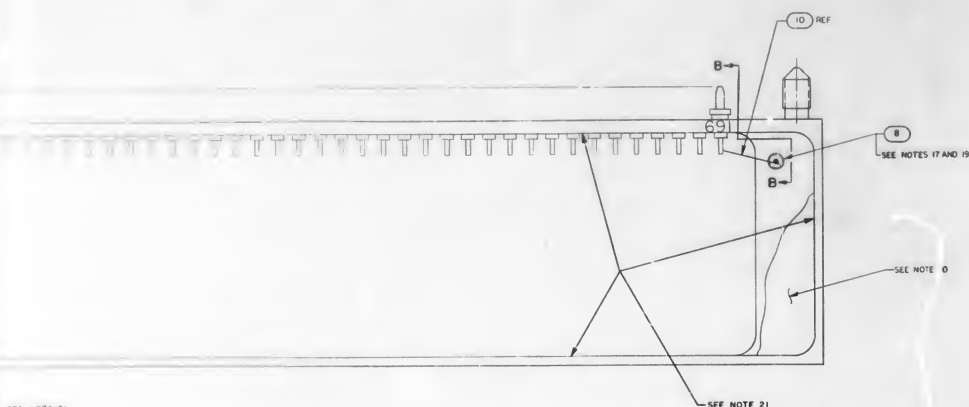
PART NO.	VALUE
1006750-157	53.5K
-74	56K
-158	59K
-75	62K
-159	65K
-76	68K
-160	71.5K
-77	73K
-161	78.5K
-78	82K
-162	86.5K
-79	91K
-163	95.5K
-80	100K
-164	105K
-81	110K
-165	115K
-82	120K
-166	125K
-83	130K
-167	140K
1006750-84	150K

PART NO.	VALUE	PART NO.	VALUE
1006750-32	1K	1006750-53	7.5K
-106	1.05K	-107	7.85K
-33	1.1K	-54	8.2K
-107	1.15K	-108	8.65K
-34	1.2K	-55	9.1K
-108	1.25K	-109	9.55K
-35	1.3K	-110	10K
-109	1.4K	-111	10.5K
-36	1.5K	-57	11K
-110	1.55K	-112	11.5K
-37	1.6K	-58	12K
-111	1.7K	-113	12.5K
-38	1.8K	-59	13K
-112	1.9K	-114	13.5K
-39	2.0K	-60	15K
-113	2.1K	-115	15.5K
-40	2.2K	-61	16K
-114	2.3K	-116	17K
-41	2.4K	-62	18K
-115	2.55K	-117	19K
-42	2.7K	-63	20K
-116	2.85K	-118	21K
-43	3K	-64	22K
-117	3.15K	-119	23K
-44	3.3K	-65	24K
-118	3.45K	-120	25.5K
-45	3.6K	-66	27K
-119	3.75K	-121	28.5K
-46	3.9K	-67	30K
-120	4.1K	-122	31.5K
-47	4.3K	-68	32K
-121	4.5K	-123	33K
-48	4.7K	-69	36K
-122	4.9K	-124	37.5K
-49	5.1K	-70	39K
-123	5.55K	-125	41K
-50	5.6K	-71	43K
-124	5.9K	-126	45K
-51	6.2K	-72	47K
-125	6.8K	-127	49K
1006750-73	51K	-73	51K
SEE NOTE 14	∞	-74	53.5K
		-75	56K
		-76	59K
		-77	62K
		-78	65K
		-79	68K
		-80	71.5K
		-81	73K
		-82	78.5K
		-83	82K
		-84	86.5K
		-85	91K
		-86	95.5K
		-87	100K
		-88	105K
		-89	110K
		-90	115K
		-91	120K
		-92	125K
		-93	130K
		-94	140K
		-95	150K

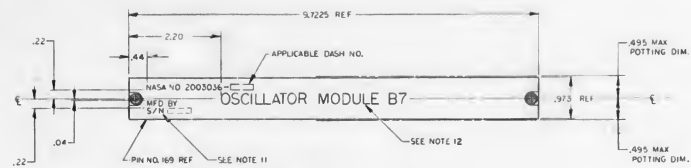
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-E-70327
 2. REFERENCE TO DIMENSIONS
 3. DIMENSIONS ARE IN INCHES
 4. BLACK DOT AND SINGLE SOLID LEADS INDICATE UPPER LEVEL WIRING
 5. WHITE DOT AND SINGLE DOTTED LEADS INDICATE LOWER LEVEL WIRING
 6. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH INDICATED
 7. BEFORE ENCAPSULATING REMOVE CROSS HATCHED LEADS FROM R12
 8. ENCAPSULATE PER INDICATED METHOD F USING 0.54 THINER
 9. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
 10. ENCAPSULATE PER INDICATED METHOD PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 1, REMOVE FLASHING
 11. MARK 10/028 - HIGH WHITE CHARACTERS PER INDICATED AND INDICATED TYPE II CLASS 2 USING INK 1006751-1, SERIALIZE PER INDICATED
 12. MARK 26/24 - HIGH WHITE CHARACTERS PER INDICATED AND INDICATED TYPE II CLASS 2 USING INK 1006751-1, SERIALIZE PER INDICATED
 13. SELECT R2, R3, R4 AND R6 THRU R10 PER APPLICABLE PS FROM APPROPRIATE CHART UTILIZING 1006750 OR 100733
 14. WHEN VALUE OF R6, R8, R9 OR R10 IS INFINITY PER NO COMPONENT WILL BE USED
 15. SEAL INSULATORS AND TERMINALS TO HEADER PER NO 1002004 TYPE 3E
 16. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 2003036
 17. MOUNTING TORQUE FOR FIND NO. 8 TO BE 15-20 INCH OUNCES
 18. MOUNTING TORQUE FOR FIND NO. 7 TO BE 20-25 INCH POUNDS
 19. SEAL FIND NO. 8 TO FIND NO. 1 PER INDICATED TYPE II
 20. MOUNTING TORQUE FOR FIND NO. 9 TO BE 4-6 INCH POUNDS
 21. COAT INDICATED SURFACES: BOTH ENDS, TOP AND BOTTOM AND BOTH SIDES PER INDICATED TYPE II



REV	DATE	DESCRIPTION	BY	CHK
A		REVISED PER TORR 23218	MTN	
B		REVISED PER TORR 24218	MTN	
C		REVISED PER TORR 25418	MTN	
D		REVISED PER TORR 25930	MTN	
E		REVISED PER TORR 27309	MTN	

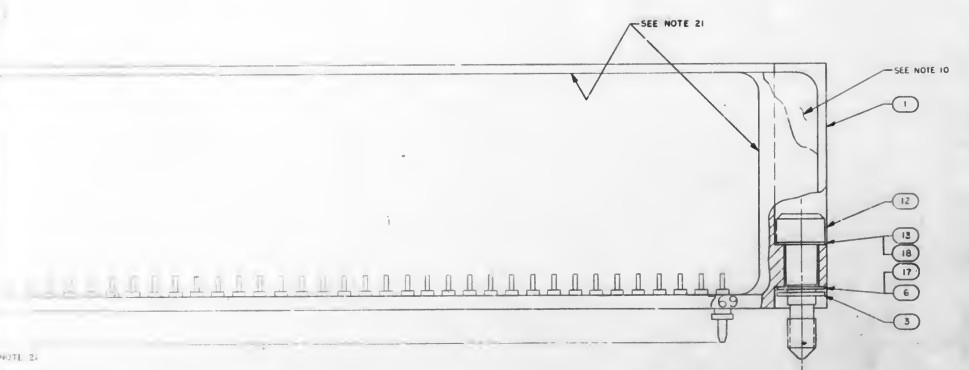


PARTIAL SECTION B-B
SEE NOTE 15



MARKING VIEW
SCALE 1/1

PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE
1010733-121	511	1010733-315	5110	1010733-490	42700
-125	536	-317	5560	-494	44800
-128	556	-320	5560	-497	45400
-133	580	-323	5760	-499	47500
-136	612	-325	5900	-501	48700
-141	649	-328	6120	-503	49920
-144	673	-330	6260	-505	51100
-149	719	-333	6480	-507	52300
-153	750	-336	6730	-509	53600
-156	777	-341	7150	-512	55600
-160	816	-345	7500	-515	57600
-165	866	-348	7770	-517	59000
-169	909	-352	8160	-520	61200
-173	953	-355	8450	-522	62600
-176	988	-357	8660	-525	64800
-178	1010	-361	9090	-528	67300
-181	1050	-365	9530	-530	69000
-185	1100	-368	9880	-533	71500
-189	1150	-370	10100	-535	73200
-192	1200	-373	10500	-537	75000
-195	1240	-377	11000	-540	77700
-199	1300	-381	11500	-542	79600
-204	1380	-384	12000	-544	81600
-209	1470	-387	12400	-546	83500
-213	1540	-391	13000	-549	86400
-216	1600	-396	13800	-551	88700
-221	1690	-401	14700	-553	90900
-225	1780	-405	15400	-555	93100
-230	1880	-408	16000	-557	95300
-234	1980	-413	16900	-560	98800
-239	2100	-417	17800	-562	101000
-243	2210	-420	18400	-565	102000
-246	2240	-422	18900	-569	110000
-250	2400	-426	19800	-573	115000
-254	2520	-428	20900	-576	120000
-259	2670	-431	21000	-579	124000
-264	2840	-435	22100	-583	130000
-269	3010	-438	22800	-586	134000
-272	3160	-442	24000	-593	142000
-277	3320	-446	25200	-597	154000
-280	3440	-451	26700	1010733-400	160000
-284	3610	-456	28400		
-287	3740	-461	30100		
-291	3920	-465	31600		
-295	4120	-469	33200		
-298	4270	-472	34400		
-302	4440	-476	36100		
-305	4640	-479	37400		
-308	4810	-483	39200		
1010733-310	4930	1010733-487	41200		



QTY	PART NO.	DESCRIPTION	REF
2	2003036-001	WASHER, FLAT	20
2	2003036-002	WASHER, FLAT	19
2	2003036-003	WASHER, FLAT	17
2	2003036-004	WASHER, FLAT	16
2	2003036-005	WASHER, FLAT	15
2	2003036-006	WASHER, FLAT	14
2	2003036-007	WASHER, FLAT	13
2	2003036-008	WASHER, FLAT	12
2	2003036-009	WASHER, FLAT	11
2	2003036-010	WASHER, FLAT	10
2	2003036-011	WASHER, FLAT	9
2	2003036-012	WASHER, FLAT	8
2	2003036-013	WASHER, FLAT	7
2	2003036-014	WASHER, FLAT	6
2	2003036-015	WASHER, FLAT	5
2	2003036-016	WASHER, FLAT	4
2	2003036-017	WASHER, FLAT	3
2	2003036-018	WASHER, FLAT	2
2	2003036-019	WASHER, FLAT	1

MIT INSTRUMENTATION LAB
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE, MASS 02139

OSCILLATOR MODULE B7 ASSEMBLY

80230 J 2003036

DATE: 8/7/68
SCALE: 1/1

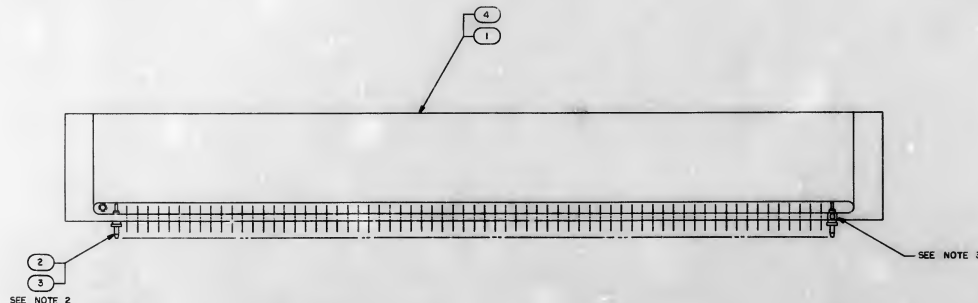
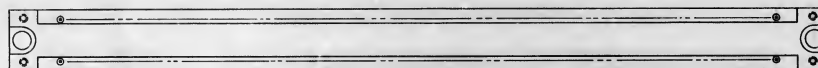
APPROVED: [Signature]
BY: [Signature]

2003036 F

R2	PART NO.	VALUE
	1006750-39	2.2K
	124	2.2K
	125	2.55K
	42	2.7K
	43	3K
	44	3.3K
	45	3.6K
	46	3.9K
	47	4.3K
	48	4.7K
	49	5.1K
	50	5.6K
	51	6.2K
	52	6.8K
	136	7.15K
	53	7.5K
	137	7.85K
	54	8.2K
	138	8.65K
	55	9.1K
	139	9.55K
	56	10K
	140	10.5K
	57	11K
	141	11.5K
	58	12K
	142	12.5K
	59	13K
	143	13.5K
	60	15K
	144	15.5K
	61	16K
	145	17K
	62	18K
	146	19K
	63	20K
	147	21K
	1006750-44	22K
	SEE NOTE 14	∞

R4 AND R6			
PART NO.	VALUE	PART NO.	VALUE
1006750-75	510	1006750-126	2.85K
-76	560	-127	3.1K
-77	590	-128	3.3K
-78	620	-129	3.6K
-79	650	-130	3.9K
-80	680	-131	4.1K
-81	710	-132	4.3K
-82	750	-133	4.5K
-83	785	-134	4.7K
-84	820	-135	4.9K
-85	865	-136	5.1K
-86	910	-137	5.35K
-87	955	-138	5.6K
-88	1K	-139	5.8K
-89	1.05K	-140	10.5K
-90	1.1K	-141	11K
-91	1.15K	-142	11.5K
-92	1.2K	-143	12K
-93	1.25K	-144	12.5K
-94	1.3K	-145	13K
-95	1.35K	-146	13.5K
-96	1.4K	-147	14K
-97	1.45K	-148	14.5K
-98	1.5K	-149	15K
-99	1.55K	-150	15.5K
-100	1.6K	-151	16K
-101	1.65K	-152	16.5K
-102	1.7K	-153	17K
-103	1.75K	-154	17.5K
-104	1.8K	-155	18K
-105	1.85K	-156	18.5K
-106	1.9K	-157	19K
-107	1.95K	-158	19.5K
-108	2K	-159	20K
-109	2.05K	-160	20.5K
-110	2.1K	-161	21K
-111	2.15K	-162	21.5K
-112	2.2K	-163	22K
-113	2.25K	-164	22.5K
-114	2.3K	-165	23K
-115	2.35K	-166	23.5K
-116	2.4K	-167	24K
-117	2.45K	-168	24.5K
-118	2.5K	-169	25K
-119	2.55K	-170	25.5K
-120	2.6K	-171	26K
-121	2.65K	-172	26.5K
-122	2.7K	-173	27K
-123	2.75K	-174	27.5K
-124	2.8K	-175	28K
-125	2.85K	1006750-75	510
1006750-76	560	1006750-126	2.85K

[illegible]

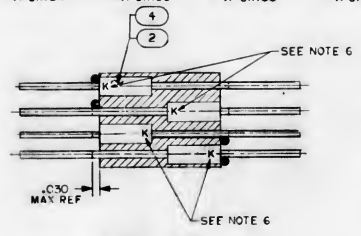
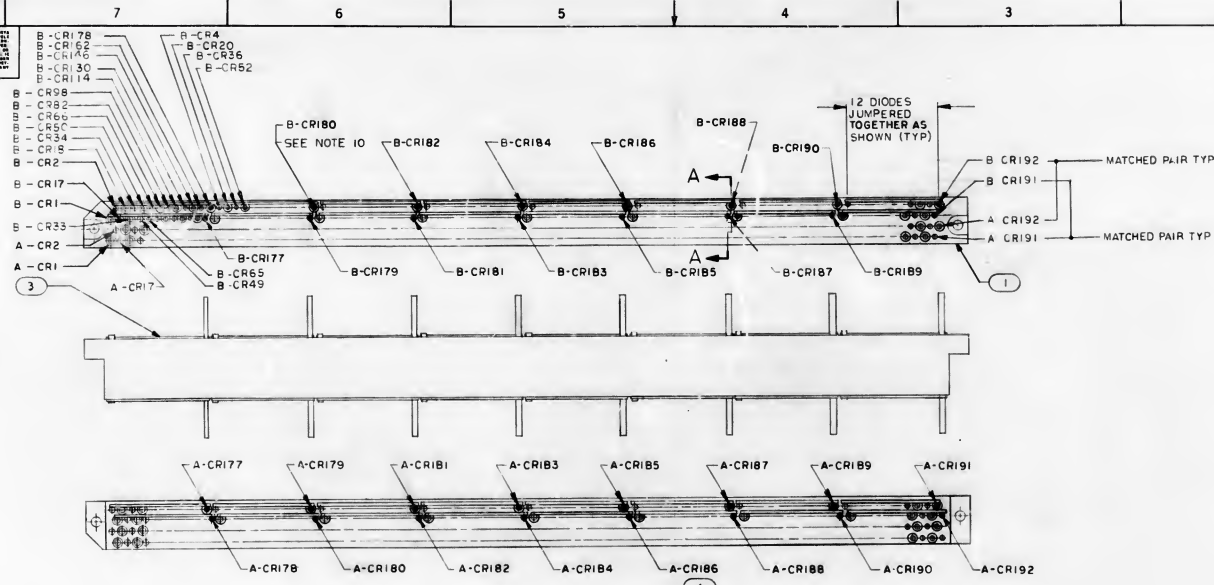


- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. ASSEMBLE FINO NO. 2 AND FINO NO. 3 TO FIND NO. 1 AND FINO NO. 4 PER NO1002136
 3. MARK 08/06 HIGH WHITE CHARACTERS PER NO1002019 AND NO1002122
TYPE II, CLASS 2 USING INK 1006271-1
 4. HOLE SHOWN FOR ORIENTATION PURPOSES ONLY
 5. IDENTIFY WITH DRAWING NO. AND REVISION PER NO1002019

[illegible]

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

NOTES: 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. 2. TOLERANCES ON DIMENSIONS: FRACTIONS DECIMALS ANGLES. 3. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069. 4. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069. 5. UNWELDED AND BLACK DOT (●) COMPONENT LEADS, 50 MIN ABOVE FIND NO. 1. 6. K DENOTES CATHODE SIDE OF DIODE. 7. TRIM ALL WELDED COMPONENT LEADS EXCEPT BLACK DOT (●) LEADS, .030 MAX ABOVE FIND NO. 1. 8. IDENTIFY WITH PART NO. PER ND1002019. 9. AR DENOTES AS REQUIRED. 10. BLACK DOT (●) DENOTES TWELFTH COMPONENT LEAD. 11. FIND NO. 2 OR 4 NOTED A AND B, EXAMPLE: A-CR1 AND B-CR1, MATCHED PAIRS LOAD IN ACCORDANCE WITH SHEET 2.



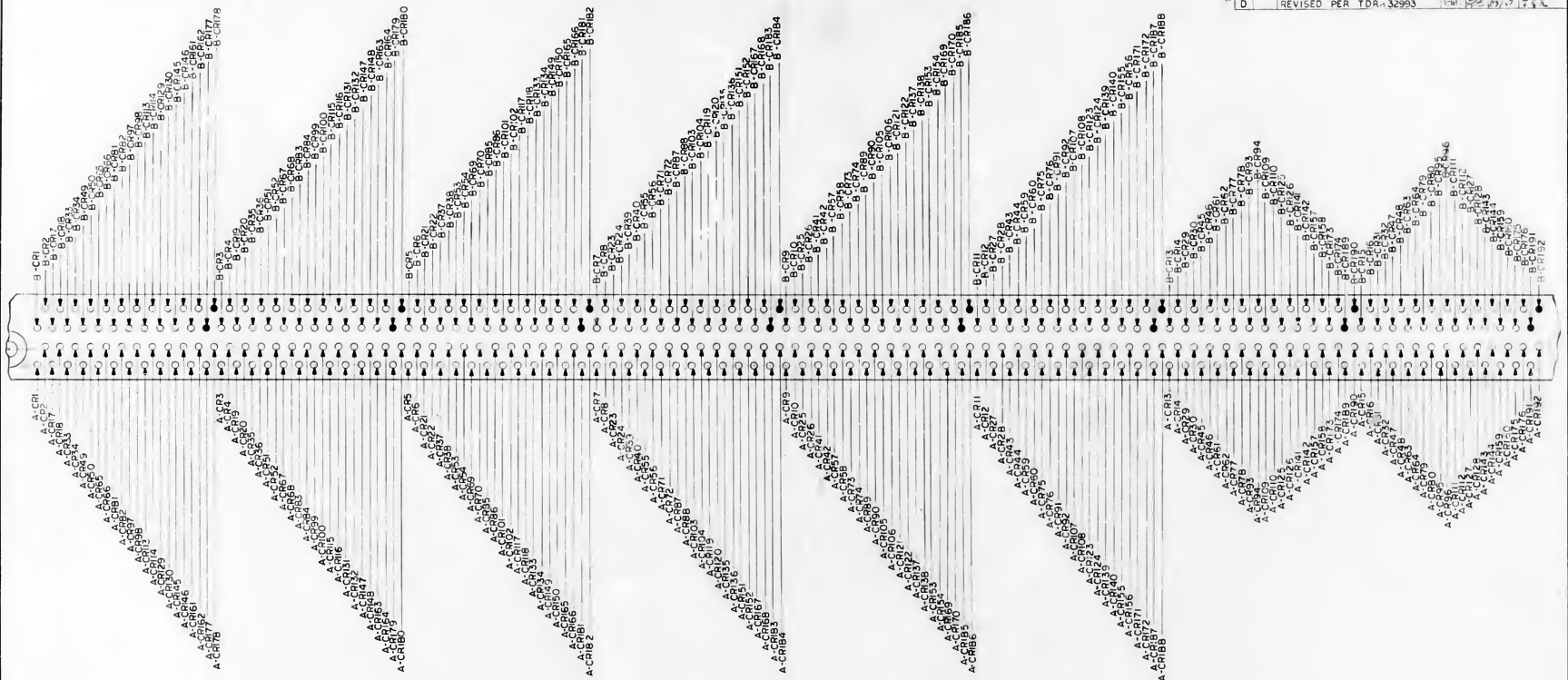
SECTION A-A
SCALE 4/1

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 2005012	11/4/66	W. J. W.
B	REVISED PER TORR 2005012	11/4/66	W. J. W.
C	REVISED PER TORR 2005012	11/4/66	W. J. W.
D	REVISED PER TORR 2005012	11/4/66	W. J. W.

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. WELD PER ND1002005
 3. STAKE & COVER FWD NO. 2 OR 4 TO FIND NO. 1 PER ND1002009 METHOD A
 4. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
 5. UNWELDED AND BLACK DOT (●) COMPONENT LEADS, 50 MIN ABOVE FIND NO. 1
 6. K DENOTES CATHODE SIDE OF DIODE
 7. TRIM ALL WELDED COMPONENT LEADS EXCEPT BLACK DOT (●) LEADS, .030 MAX ABOVE FIND NO. 1
 8. IDENTIFY WITH PART NO. PER ND1002019
 9. AR DENOTES AS REQUIRED
 10. BLACK DOT (●) DENOTES TWELFTH COMPONENT LEAD
 11. FIND NO. 2 OR 4 NOTED A AND B, EXAMPLE: A-CR1 AND B-CR1, MATCHED PAIRS LOAD IN ACCORDANCE WITH SHEET 2

QTY	QTY REQD	PART OR IDENTIFYING NO	DESCRIPTION	FIND NO
1	1	2004103-002	DIODE MATCHED PAIR	4
1	1	2004103-002	WIRE ELECTRICAL	3
1	1	2004103-002	DIODE MATCHED PAIR	2
1	1	2004103-002	BLOCK COMPONENT DIODE	1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ON DIMENSIONS: FRACTIONS DECIMALS ANGLES.		INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
DO NOT SCALE THIS DRAWING.		DATE: 11/4/66		BLOCK COMPONENT DIODE ASSEMBLY	
MATERIAL: 2003972		APPROVAL: [Signature]		FIXED MEMORY MODULE	
HEAT TREATMENT: 2003053		APPROVAL: [Signature]		NASA DRAWING NO: 2003045	
NEXT ASSY: USED ON:		NASA APPROVAL: [Signature]		SCALE: 2/1	
APPLICATION:		MTI APPROVAL: [Signature]		SHEET 1 OF 2	

[illegible]

REVISIONS <i>20043</i>						
S/N	ZONE	DESCRIPTION	D ⁿ	CHK	DATE	APPROVED
A		REVISED PER TDR 20950			<i>7/2/04</i>	<i>WR</i>
B		REVISED PER TDR 24945	<i>EAU</i>	<i>CHK</i>	<i>4/6/04</i>	
C		REVISED PER TDR 25929	<i>EAU</i>		<i>4/6/04</i>	<i>WR</i>
D		REVISED PER TDR 32993	<i>EAU</i>		<i>2/23/07</i>	<i>WR</i>

LOCATION OF MATCHED DIODE PAIRS
SEE NOTE II
SHEET I

QTY REQD		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION		FIND NO	
				LTS. OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES # # # DO NOT SCALE THIS DRAWING		M I T INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		DRAWN <i>J. G. G.</i> <i>10/24/64</i> <i>10/24/64</i> CHECKED <i>J. G. G.</i> <i>10/24/64</i> <i>10/24/64</i> APPROVED <i>J. G. G.</i> <i>10/24/64</i> <i>10/24/64</i> APPROVED <i>J. G. G.</i> <i>10/24/64</i> <i>10/24/64</i>		BLOCK COMPONENT DIODE ASSEMBLY FIXED MEMORY MODULE			
		MATERIAL:					
		APPROVED M I T <i>J. G. G.</i> <i>10/24/64</i> <i>10/24/64</i>		CODE IDENT NO 80230		SIZE D	
		DRAWING NO: 2003045					
NEXT ASSY		USED ON					
APPLICATION				DATE		SHEET 2 OF 2	

NOTES - UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES
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 97. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES
 98. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES
 99. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES
 100. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES

SEE NOTE 4

SECTION A A

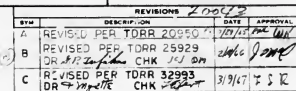
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLY FIND NO. 4, 5 AND 6 TO FIND NO. 1 PER ND1002136
3. IDENTIFY WITH PART NO PER ND1002019
4. MARK .08/.06 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122, TYPE II CLASS 2 USING INK 100627-H1 APPROXIMATELY AS SHOWN
5. MOUNTING TORQUE FOR FIND NO. 3 TO BE 15-20 INCH OUNCES
6. LEAD FIND NO. 3 TO FIND NO. 1 PER ND1002004 TYPE II

REVISIONS 2.0.0.0			
REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 20950	1/16/68	WHL
B	REVISED PER TORR 23447	1/16/68	WHL
C	REVISED PER TORR 24215	1/16/68	WHL
D	REVISED PER TORR 26870	1/16/68	WHL
E	CHANGED PER TORR 29564	1/16/68	WHL

QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
48	1006782-15	CONTACT, WRAPOST, MALE	6
48	1006782-1	CONTACT, WRAPOST, MALE	5
96	1006775	INSULATOR, WRAPOST, MALE	4
1	2004039	TERMINAL, THEADED	3
2	MS16555-61B	PIN, STRAIGHT HEADLESS	2
1	2004075	CONNECTOR, PLATE	1

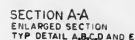
INSTRUMENTATION LAB CUSTOMER: NASA		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN: <i>[Signature]</i> DATE: 1/16/68		CODE BENT NO: 80230	
CHECKED: <i>[Signature]</i> DATE: 1/16/68		NESA DRAWING NO: 2003046	
APPROVAL: <i>[Signature]</i> DATE: 1/16/68		SCALE: 2/1	
NASA APPROVAL: <i>[Signature]</i>		SHEET 1 OF 1	
MIT APPROVAL: <i>[Signature]</i>			



- | | | 2005935 | SCHEMATIC | REVISION |
|-----|------|-------------------------|----------------------------|----------|
| X | - | 2005012 | SCHEMATIC | REVISION |
| 16 | AR | 2004183-002 | WIRE,MATCHED PAIR | 5 |
| 16 | AR | 1006757-8 | DIODE, ELECTRICAL | 6 |
| 32 | 32 | 1006789-12 | WIRE, ELECTRICAL | 4 |
| 32 | 32 | 1006750-32 | RESISTOR | 3 |
| 16 | I | 2004013-002 | DIODE, MATCHED PAIR | 2 |
| 1 | I | 2004073 | BLOCK, RESISTOR, DIODE | 1 |
| QTY | INFO | PART OR IDENTIFYING NO. | NOMINLATIVE OR DESCRIPTION | FINDING |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES		M I T INSTRUMENTATION LAB CHRYSLER PAPER DRAWN BY <u>John A. Burt</u> CHECKED BY <u>John A. Burt</u> APPROVED BY <u>John A. Burt</u> APPROVAL <u>John A. Burt</u>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS BLOCK, RESISTOR - DIODE ASS'Y FIXED MEMORY MODULE	
2003972		HEAT TREATMENT	WASA APPROVAL <u>John A. Burt</u>	COOK IDENT NO 80230	WASA DRAWING NO 2003048
2003053				SIZE D	
NEXT ASSY	USED ON	FINAL FINISH	WIT APPROVAL <u>John A. Burt</u>	SCALE 4/1	WT
APPLICATION				SHEET 1 OF 1	

SYN	DATE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TORR 21340	10	10/1/83	10/1/83	JFK
B		REVISED PER TORR 27737	455	10/1/83	10/1/83	JFK

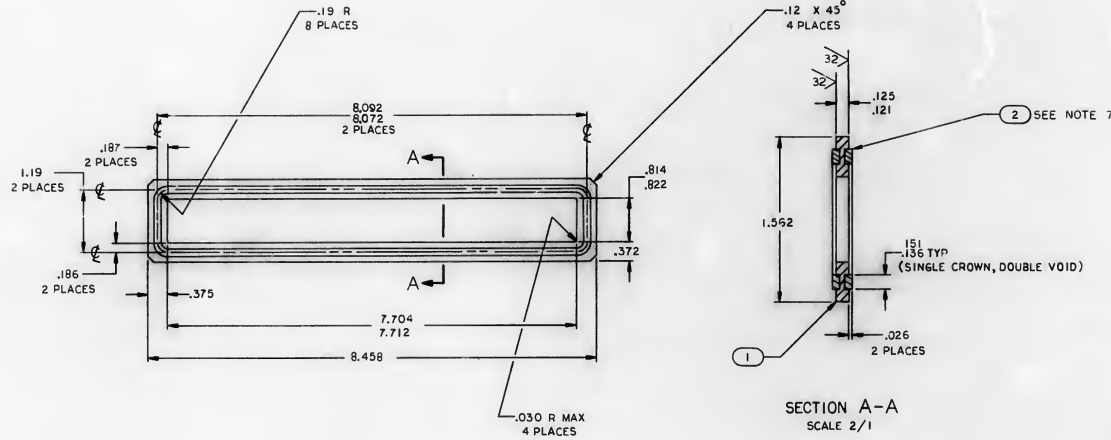


- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. A R DENOTES AS REQUIRED
 - 3.
 4. IDENTIFY WITH PART NO. PER NDI0C2U19

AD	006757-2	WIRE ELECTRICAL TAPE, INSULATION	2
AP	006800-SEE CHART		
QTY REQ	UNIT OF MEASURE NO	NOMENCLATURE OR DESCRIPTION	FORM NO
LIST OF MATERIALS			
M I T INSTRUMENTATION LAB		MANHATTEN SPACECRAFT CENTER HOUSTON, TEXAS	
CHANGED	APPROVED	MATRIX ASSY	
CHANGED	APPROVED	FIXED MEMORY MODULE	
APPROVED	APPROVED		
APPROVED	APPROVED	CAGE NUMBER NO	ISS
APPROVED	APPROVED	80230E	2C03051
APPROVED	APPROVED	BOAL TONE	
		1 SHEET OF	

NOTES: 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
2. MATERIAL: 6061-T6 AL PER QQ-A-250/11, TEMP T6
3. REMOVE BURRS AND SHARP EDGES .005/.015
4. ALL SURFACES $R_{\text{a}} \leq 5$ UNLESS OTHERWISE SPECIFIED
5. FINISH: CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
6. IDENTIFY WITH PART NO. PER NDI002019
7. FIND NO.2 TO BE MOLDED TO FIND NO.1 AS SHOWN

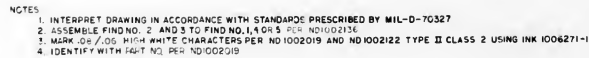
REVISIONS		DATE	CHK	DA	APPROVED
2	1/16/66				
1	REVISED PER TOAR 22148	2/1/66			



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: 6061-T6 AL PER QQ-A-250/11, TEMP T6
 3. REMOVE BURRS AND SHARP EDGES .005/.015
 4. ALL SURFACES $R_{\text{a}} \leq 5$ UNLESS OTHERWISE SPECIFIED
 5. FINISH: CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
 6. IDENTIFY WITH PART NO. PER NDI002019
 7. FIND NO.2 TO BE MOLDED TO FIND NO.1 AS SHOWN

2	GASKET, RUBBER/BUTYL (11R) (AMS 3238 A)	2	
1	2003055-001 GASKET	1	
QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
-011			
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN Ed. Pomeroy 2/1/66		GASKET, SEAL 360 PIN CONN	
CHECKED [Signature]		CODE IDENT NO. 80230	
APPROVED [Signature]		SIZE D	
APPROVED MIT [Signature]		DRAWING NO. 2003055	
APPROVED MSC [Signature]		DATE SCALE 1/1	

2003100	HEAT ASSY	USED ON	APPLICATION
SEE NOTE 2			

[illegible]

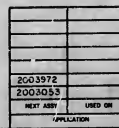
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS AND DO NOT SCALE THIS DRAWING
2003891	MATERIAL
2003953	
2003056	
NEXT ASSY	USED ON
APPLICATION	

NOTES :

15. VISIBLE COMPONENTS, FIND NO.2,3,& 4, SHALL NOT EXCEED ENCAPSULATED SURFACE
16. DUMMY SENSE WIRE LINES, IF REQUIRED, RUNNING ADJACENT AND ON THE SAME SIDE OF FIND NO.1 SHALL BE ROUTED IN OPPOSITE DIRECTIONS

REFERENCES

1. PROCESS REQUIREMENTS FOR CONTROL AND INSPECTION OF ROPE MEMORY ASSEMBLIES ND1002285
2. FIXED MEMORY FIXTURE DWG AP 22500



13	2004896	SWITCH
AR	102675-00	TAPE LACING & TYPING
AR	1006275-2	WIRE ELECTRICAL
I	2003049-01	CORE HOLDER ASSY
QTY	IDENTIFY NO	NUMBER AND DESCRIPTION
MIT		LIST OF MATERIALS
INSTRUMENTATION LAB		MAINTENANCE SPACECRAFT CENTER
APPROVED: <i>[Signature]</i> APPROVED: <i>[Signature]</i> APPROVED: <i>[Signature]</i> APPROVED: <i>[Signature]</i>		SENSE WIRING ASSY SIDE A FIXED MEMORY MODULE
APPROVED: MIT	COOP FIXED NO. EX	DRAWING NO
APPROVED: NSC	80230	2003060
	QTY 2/1	SHEET 1

REV INVOICE							
REV	DATE	DESCRIPTION	QTY	UNIT	DATE	APPROVED	
A	REVISED PER TDR# 30660		25	EA	12/1/94		
B	REVISED PER TDR# 31559		25	EA	12/1/94		
C	REVISED PER TDR# 31559		25	EA	12/1/94		
D	REVISED PER TDR# 26772		25	EA	12/1/94		
E	REVISED PER TDR# 26772		25	EA	12/1/94		
F	REVISED PER TDR# 26772		25	EA	12/1/94		
G	REVISED PER TDR# 26772		25	EA	12/1/94		
H	REVISED PER TDR# 21863		25	EA	12/1/94		
J	REVISED PER TDR# 29741		25	EA	12/1/94		
K	REVISED PER TDR# 30664		25	EA	12/1/94		
L	REVISED PER TDR# 30664		25	EA	12/1/94		
M	REVISED PER TDR# 30810		25	EA	12/1/94		
N	REVISED PER TDR# 33446		25	EA	12/1/94		
P	REVISED PER TDR# 33543		25	EA	12/1/94		
R	REVISED PER TDR# 35055		25	EA	12/1/94		
S	REVISED PER TDR# 34140		25	EA	12/1/94		
T	REVISED PER TDR# 34459		25	EA	12/1/94		
V	REVISED PER TDR# 35540		25	EA	12/1/94		
W	REVISED PER TDR# 35640		25	EA	12/1/94		

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ET-213	<input type="radio"/>

QTY REQD	PARTS OR IDENTIFICATION NO	NAME OR LOCATION OF OR DESCRIPTION		QTY REQD
		LOT OF MATERIALS		
UNLESS OTHERWISE SPECIFIED ALL MATERIALS ARE TO BE CANDIDATE VALUES ARE IN OUNCES TOLERANCES ARE IN OUNCES FRACTIONS DECIMALS DO NOT SCALE THIS DRAWING UNLESS NOTED		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
INSTRUMENTATION LAB CANNON AFB TEXAS		SENSE WIRING ASSY SIDE A FIXED MEMORY MODULE		
CHECKED: <i>[Signature]</i> DATE: 8-22-70 APPROVED: <i>[Signature]</i>		COCK, MARK, OR SEAL 80230 E		DRAWING NO 200306
APPROVED: <i>[Signature]</i> DATE: 8-22-70		SCALE: 1/1		SHEET 1 OF 1
NEXT ASSY USED ON APPLICATION				

[illegible]

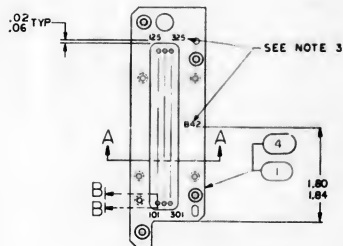
- REFERENCES:
1. PROCESS REQUIREMENTS FOR CONTROL AND INSPECTION OF ROPE MEMORY ASSEMBLIES NO 1002285
 2. FIXED MEMORY FIXTURE DWG NO AP 22500

IR	000000-B	INSULATION TAP ELECTRICAL
AR	20-04-96	U-SW-1
AR	10-07-07-000	TAP-LEADING 3 TYPE
AR	10-07-07-000	WIRE ELECTRICAL
AR	1000000-011	CORE-HOLDING ASSY
QTY	1	MANUFACTURING OR
QTY	1	ASSEMBLY
LIST OF MATERIALS		
MIT INSTRUMENTATION LAB CAMBRIDGE MASS		MANNED SPACECRAFT CENTER HEUSTON TEXAS
DESIGNED <i>W. J. J. J. J.</i> CHECKED <i>W. J. J. J. J.</i> APPROVED <i>W. J. J. J. J.</i>		SENSE WIRING ASSY SIDE B FIXED MEMORY MODULE
APPROVED MIT	CODE IDENT NO 80230	DATE E
APPROVED MIL	DATE 10-07-07-000	DRAWING NO 20030301

REVINTS						
AGE	GRADE	RENT	DATE	PAID	DATE	REMARKS
A		REVISED PER TDR 20055				
B		REVISED PER TDR 21340				
C		REVISED PER TDR 21550				
D		REVISED PER TDR 20773				
E		REVISED PER TDR 21575				
F		REVISED PER TDR 21675				
G		REVISED PER TDR 21650				
H		REVISED PER TDR 20865				
I		REVISED PER TDR 20981				
J		REVISED PER TDR 30764				
K		REVISED PER TDR 30385				
L		REVISED PER TDR 30340				
M		REVISED PER TDR 30340				
N		REVISED PER TDR 30340				
O		REVISED PER TDR 30340				
P		REVISED PER TDR 30340				
Q		REVISED PER TDR 30340				
R		REVISED PER TDR 30340				
S		REVISED PER TDR 30340				
T		REVISED PER TDR 30340				
U		REVISED PER TDR 30340				
V		REVISED PER TDR 30340				
W		REVISED PER TDR 30340				

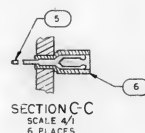
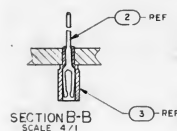
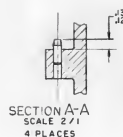
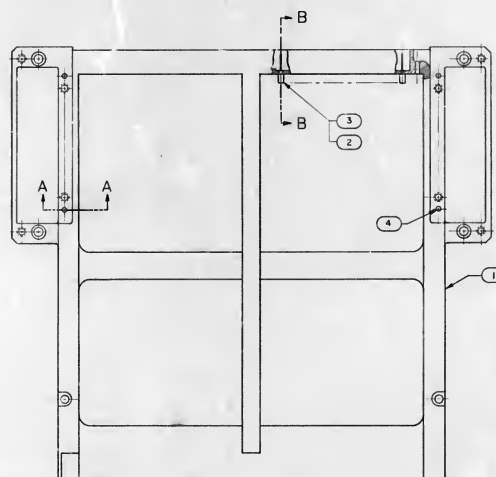
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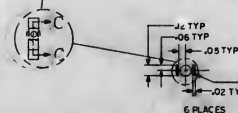
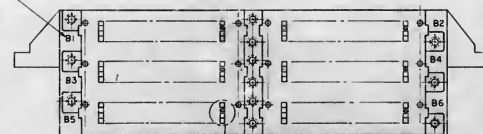
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|----------|----------|-------------------------|-----------------------------|----------|
| 1 | — | 2004701 | CONNECTOR B42 | 4 |
| 75 | 75 | 1006775 | INSULATOR, WRAPOST MALE | 3 |
| 75 | 75 | 1006782-8 | CONTACT, WRAPOST MALE | 2 |
| — | 1 | 2004102-011 | CONNECTOR B42 | 1 |
| QTY REQD | QTY REQD | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | FIND NO. |

8	7	6	5	4	3	2	1
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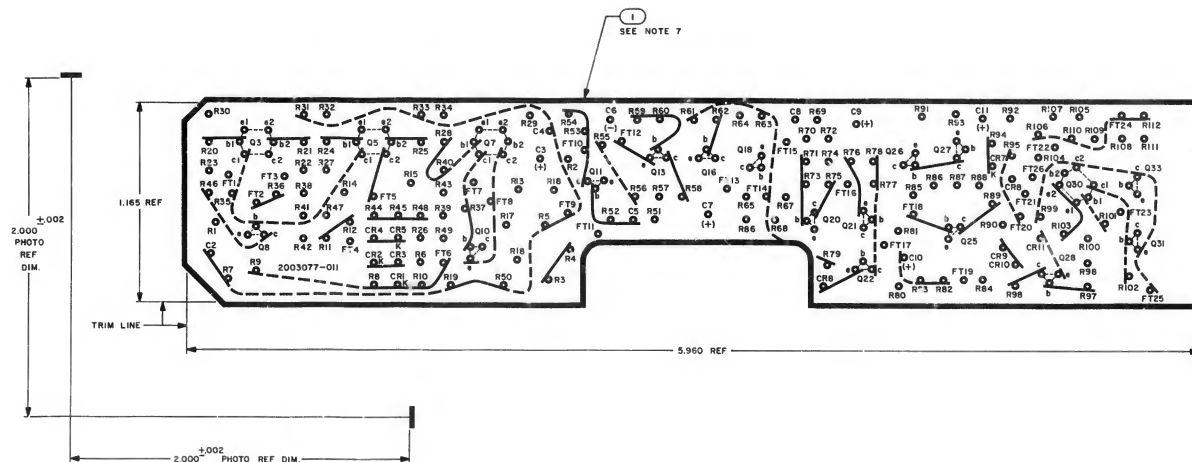
-021	1 THRU 6
-011	1 THRU 5
DASH NO.	APPLICABLE NOTES
NOTE APPLICATION	

SEE NOTE 3



6	---	1008819-003	SLEEVE, GROUNDING FEMALE
6	---	1008818-006	CONTACT ELECTRICAL, TAP POST
4	4	MS 16 555-617	PIN, DOWEL
570	576	1006774	INSULATOR, WRAPOST FEMALE
570	576	1006781-2	CONTACT, WRAPOST FEMALE
		12004133	INTERCONNECTION HEADS
QTY REQD	QTY IDENTIFYING NO.	PART IDENTIFYING NO.	NO. OF DESIGN ITEM

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES OF WHICH INCHES SHALL BE IN FRACTIONS AND DECIMALS SHALL BE IN TOLERANCES ON FRACTIONS .005 ON DECIMALS .02 DO NOT SCALE THIS DRAWING		<div style="text-align: center;"> <div>MIT</div> <div>INSTRUMENTATION LAB</div> <div> <div>DESIGNED BY <i>W. J. ...</i></div> <div> <div>DATE <i>10-10-66</i></div> <div>APPROVED BY <i>W. J. ...</i></div> </div> </div> </div>		<div style="text-align: center;"> <div>MAPED SPACECRAFT CENTER</div> <div>HOUSTON TEXAS</div> </div>	
<div style="text-align: center;"> <div>INTERCONNECTION HEADERS</div> <div>SUBASSEMBLY</div> <div>FIXED MEMORY</div> </div>		<div style="text-align: center;"> <div>DESIGNED BY <i>W. J. ...</i></div> <div>DATE <i>10-10-66</i></div> </div>		<div style="text-align: center;"> <div>APPROVED BY <i>W. J. ...</i></div> <div>DATE <i>10-10-66</i></div> </div>	
		<div style="text-align: center;"> <div>DESIGNED BY <i>W. J. ...</i></div> <div>DATE <i>10-10-66</i></div> </div>		<div style="text-align: center;"> <div>APPROVED BY <i>W. J. ...</i></div> <div>DATE <i>10-10-66</i></div> </div>	

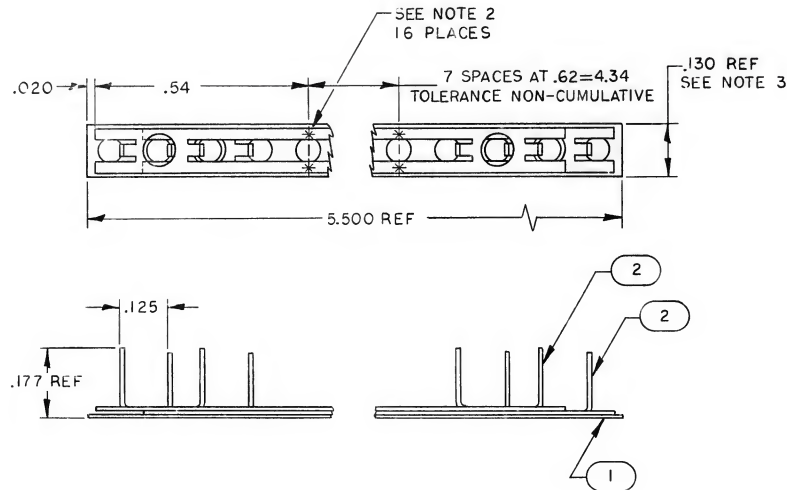


NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: FILM,.008/008 THICK SENSITIZED DIMENSIONALLY STABLE PER L-F-340,
TYPE IB, CLASS 2, STYLE 1A
3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD
SHALL INSURE DIMENSIONAL STABILITY
4. MAKE MASTER PATTERN POSITIVE FILM TO DIMENS' NS SHOWN
5. BROKEN LINE DENOTES SLEEVING
6. CUT TO WITHIN .010 OF TRIM LINE
7. APPLY FIND NO.2 TO FAR SIDE OF FIND NO.1
8. .040/.050 DIA HOLE
9. AR DENOTES AS REQUIRED

AR 100631B		ACBESIVE		1		2	
2003077 - OOI		INSULATOR		1		2	
DATE OF INFO		IDENTIFYING NO		ADDITIONAL INFO, OR DESCRIPTION		PART NO	
-001		MIT		LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES GRADES OR VALUES ARE IN % FRACTIONS SHALL BE IN FRACTIONS (DECIMALS)		INSTRUMENTATION LAB COLUMBIA UNIV		MANIP. SPACECRAFT CENTER HOUSTON TEXAS			
DO NOT SCALE THIS SET OF DRAWINGS		INSULATOR		INSULATOR B ASSEMBLY PHOTOGRAPHIC MASTER ALARM MODULE			
MATERIAL		APPROVED BY		DRAWING NO		REV	
2003089		MIT		7023036		E	
NEXT ASSY		APPLICATION		2003077		1	
SEE NOTE 2		APPROVED BY		DATE		SHEET	
		APPROVED BY		DATE		SHEET	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER ENDORSING THE HOLDING OF ANY OTHER PERSON OR CORPORATION, OR CONVERTING ANY RIGHTS OR PERMISSIONS TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREIN.



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND1002005
3. FIND NO. 2 TO BE SYMMETRICAL WITH FIND NO. 1 WITHIN .010
4. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002187
5. IDENTIFY WITH PART NO. PER ND1002019

2	2004140-002	BUS STRIP	2
1	2004143-001	INSULATOR	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
011			

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>[Signature]</i> 6/3/65 CHECKED <i>[Signature]</i> 6/3/65 APPROVED <i>[Signature]</i> APPROVED <i>[Signature]</i>		BUS STRIP ASSEMBLY	
APPROVED MIT <i>[Signature]</i>	CODE IDENT NO. 80230	SIZE C	DRAWING NO. 2003080
APPROVED MSC <i>[Signature]</i>	DATE 7/2/65	SCALE 5/1	SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES $\pm .005 \pm .005 \pm .005$ DO NOT SCALE THIS DRAWING	
MATERIAL	
2003074	
NEXT ASSY	USED ON
APPLICATION	

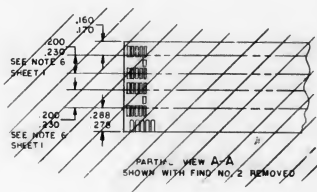
1

2	2004140-001	BUS STRIP	1
1	2004143-002	INSULATOR	1
QTY. REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIN. NO.
-011	LIST OF MATERIALS		
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN	<i>P. W. Kasper</i> 6/3/65	BUS STRIP ASSEMBLY	
CHECKED	<i>C. E. Holloman</i> 6/3/65		
APPROVED			
APPROVED	<i>Edna C. Hall</i> 6/3/65		
APPROVED M.I.T.	<i>W. Kasper</i> 2/2/66	CODE IDENT NO.	DRAWING NO.
		80230	2003081
APPROVED MSC	<i>C. E. Holloman</i> 2/2/66 DATE: <i>2/2/66</i>	SIZE C	
DATE: _____		SCALE 5/1	SHEET 1 OF 1

8



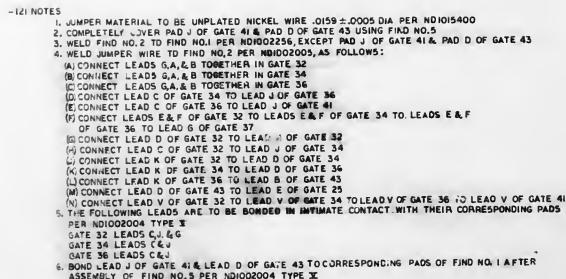
SEE NOTE 5
SHEET 1



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. APPLY FINC NO. 3 TO FIND NO. 1 IN AREA INDICATED
3. WELD PER NDDO20256
4. INTERFITY WITH SART NO. PER NDDO20219
5. ~~SEE~~ SYMBOL SIGNIFIES OMISSION OF FIND NO.2 AND FIND NO.6 IN POSITION INDICATED
SEE TABLE, SHEET 2
6. ~~COVER INDICATED AREA WITH .005 MINIMUM THICKNESS PER NDDO20204 TYPE 30~~
~~7. BOND FIND 2 TO FIND 1 USING ADHESIVE 1006281~~
8. ~~SEE T, "LE, SHEET 1~~
9. APPLY FIND NO.6 TO FIND NO.1

[illegible]

		UNLESS OTHERWISE SPECIFIED RESISTORS ARE IN OHMS CAPACITOR VALUES ARE IN μ F PREFIXES K=KILOS ARE IN OHMS VALUES ON PAGES 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879
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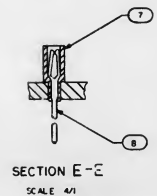
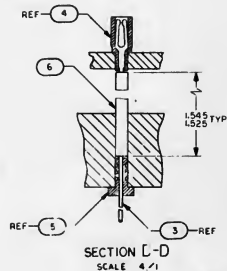
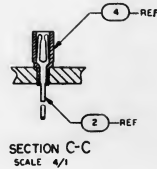
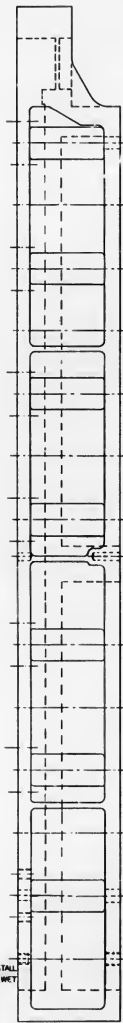


Ⓔ THIS SHEET ADDED

DATE DESIGTYPE NO.		SIGNATURE OF DESIGNEE DATE		FNO
DIV INSTRUMENTATION LAB		UNIT OF WORKING		
MALES OTHERS SPECIFIED DIFFERENCE ARE IN BOXES TOLERANCE OR PLAC IN DECIMALS DO NOT SCALE THE DRAWING EXCEPT MATERIAL		MANIPUL SCHEMATIC CENTER AUSTRAL TEAM CIRCUIT BOARD ASSEMBLY (TAPULATED)		
NEXT TEST USED ON APPLICATION		REEL APPROVAL, C. JACKSON DATE 8/7/54 BY <i>W. J. [Signature]</i>		DATE 200308 BY <i>W. J. [Signature]</i>
TEST FREQU		DATE SHIPING NO. 2003083		SHEET 3 OF 4

		UNITED STATES GOVERNMENT DRAWING OR IS PLOTTED CORRECTION VALUES ARE IN P.D. REVISION VALUES ARE IN CH. TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE: FRACTIONS: DECIMALS: ANGLES: INCHES: MILLIMETERS: AND DO NOT SCALE THIS DRAWING WITHOUT NOTATION:		-0- MIT INSTRUMENTATION LAB L. CHAMBERS DESIGNED BY: <i>W. J. ...</i> CHECKED BY: <i>W. J. ...</i> APPROVED BY: <i>W. J. ...</i> APPROVED BY: <i>W. J. ...</i>		LIST OF MATERIALS MANHATTAN SPACECRAFT CENTER INDUSTRY, TEXAS TRAY A SUBASSEMBLY AGC	
2003082		NEXT ASSY		USED ON		DRAWING NO. 80230 J 2003090	
APPLICATION		DATE		BY		CHECKED BY 80230 J 2003090	

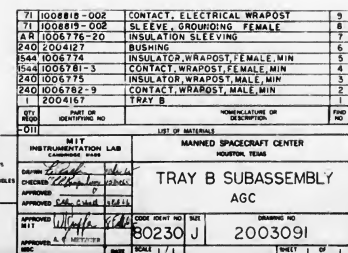
STW	STW
A	
B	



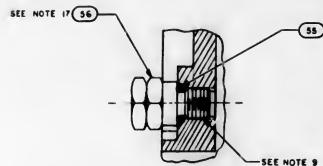
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO 234/8 AND 10 TO FIND NO 1 PER NID002136 INSTAL
FIND NO.7 USING 2 LINE CHROMATE VLT-P-2555,COLOR YELLOW, INSTAL WET
3. MARK 30.08 HIGH BLACK CHARACTERS PER NID002019
AND NID002122 TYPE II,CLASS 2 USING INK 1006271-II
4. MARK 12.10 HIGH BLACK CHARACTERS PER NID002019
AND NID002122 TYPE II,CLASS 2 USING INK 1006271-II
5. AR DENOTES AS REQUIRED
6. MARK BLACK AS SHOWN PER NID002019 USING INK 1006271-II

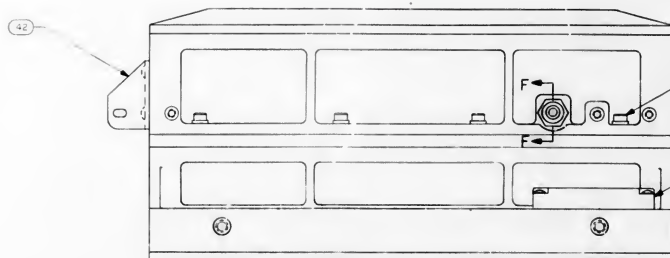
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ± 0.1 a ± 0.2 DO NOT SCALE THIS DRAWING	<div> <div> M.I.T. INSTRUMENTATION LABORATORY </div> <div> DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> APPROVED: <i>[Signature]</i> DATE: <i>[Signature]</i> </div> </div>
2003092	MATERIAL	APPROVED: <i>[Signature]</i> DATE: <i>[Signature]</i>
NEXT ASSY	USED ON	APPROVED: <i>[Signature]</i> DATE: <i>[Signature]</i>
APPLICATION		



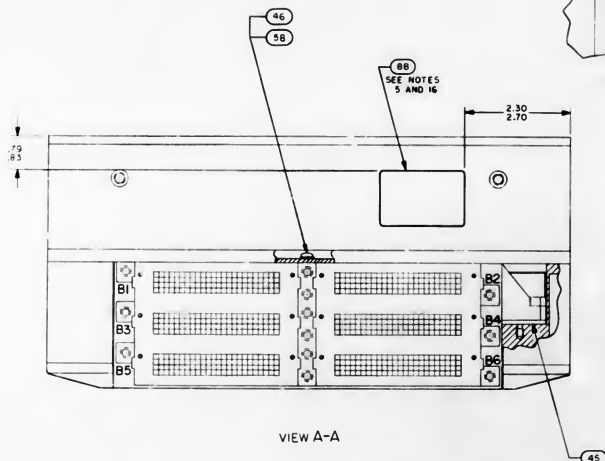
2003099



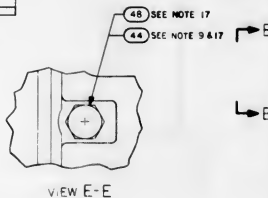
PARTIAL SECTION F F
SCALE: 2/1



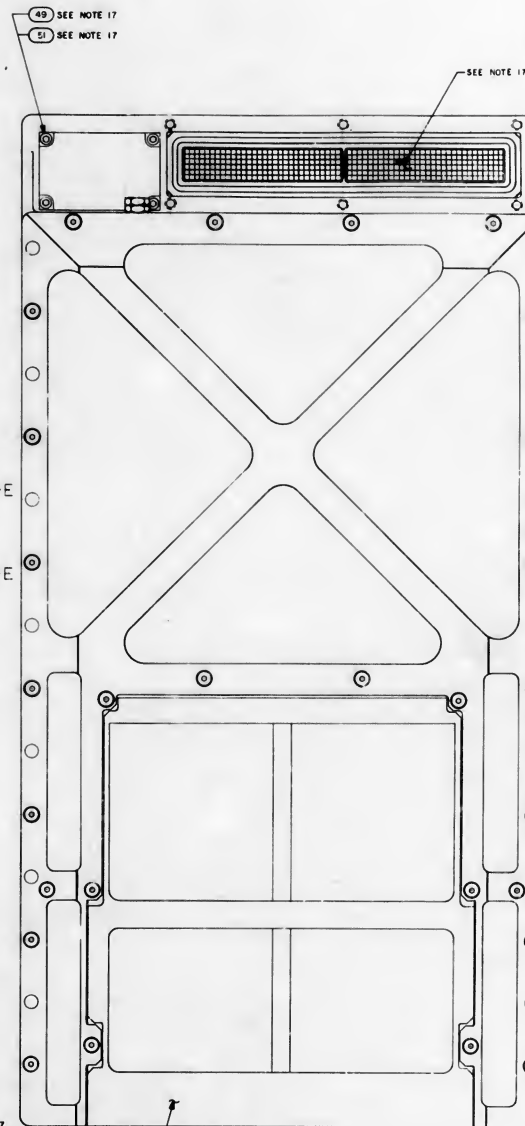
VIEW B-B



VIEW A-A



VIEW E-E



- 2
82
91
6
SEE NOTES 4 AND 15
92
91
1
80
46
51

SEE NOTE 20
SHEET 2
SEE CHART A
SHEET 2

SEE NOTE 17 (47)
SEE NOTE 17 (52)

SEE NOTE 17 (46)
SEE NOTE 17 (51)

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGC, COLD PLATE, AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. ADD SILICONE GREASE (ODD879) TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES.
4. ASSEMBLE FIND NO. 53 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 OR 82 PRIOR TO ASSEMBLY OF FIND NO. 2 OR 82 TO FIND NO. 81.
5. FIND NO. 45 AND FIND NO. 88 TO FIND NO. 2 OR 82 PER NO. 1002004 TYPE 2E.
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/16 INCH POUNDS.
7. TORQUE FIND NO. 47 TO 28/32 INCH POUNDS.
- 8.
9. APPLY SEALING COMPOUND MIL-S-22473 GRADE A TO FIND NO. 53, FIND NO. 36 AND FIND NO. 44.
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF THE APPLICABLE RS.
11. TORQUE FOR FIND NO. 36 MOUNTING SCREWS TO BE 4/6 INCH POUNDS.
12. TORQUE FOR FIND NO. 46, 49 AND 50 TO BE 18/32 INCH POUNDS.
13. TORQUE FOR FIND NO. 53 TO BE 4/6 INCH POUNDS.
14. TORQUE FOR FIND NO. 44 TO BE 140/160 INCH POUNDS.
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
16. MARK "COMPUTER ASSY" AND RELATED PART NO., APPLICABLE DASH NO., SERIAL NO. AND CONTRACT NO. PER 1004260.
17. SERIALIZE PER NO. 1002023.
18. PRIME PER NO. 1002279 USING 100992, EXCEPT THE FOLLOWING PARTS AND SURFACES:
 - A) FIND NOS. 44, 46, THRU 52, 54, 56, AND FIND NO. 58.
 - B) JASH CONNECTOR FEMALE MALCO PINS AND INSULATORS.
 - C) ALL EXPOSED TAPPED HOLES.
 - D) ALL EXPOSED SURFACES OF FIND NO. 3, EXCEPT SURFACE "A" AND ADJACENT RADII.

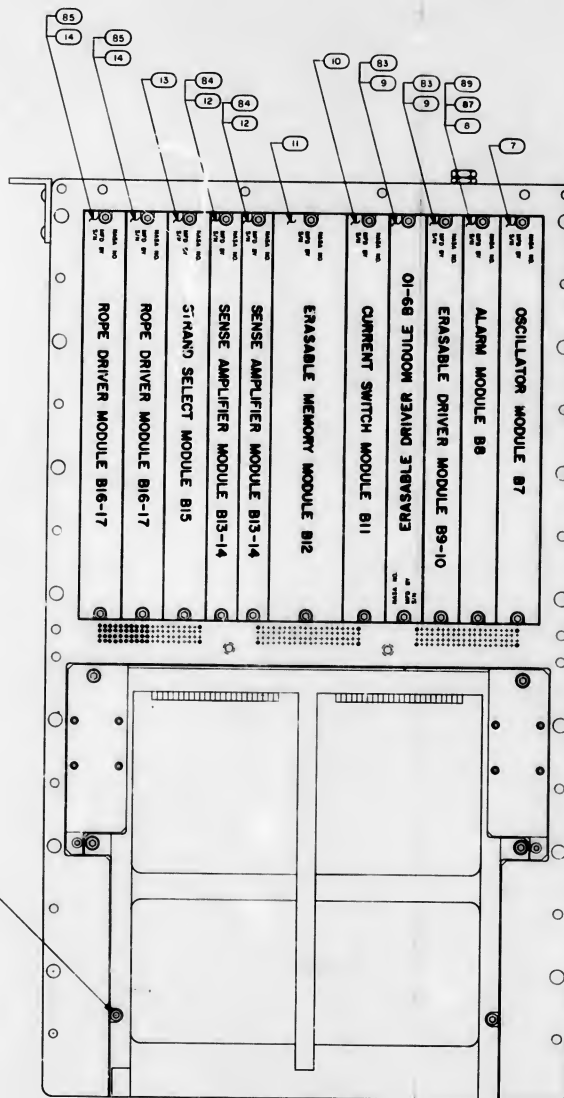
18. PAINT SURFACE "A" AND ADJACENT RADII FIRST COAT PER NO. 1002279 USING 100805-1 AND SECOND COAT PER NO. 1002277 USING 1012943-003.
19. PAINT ALL EXPOSED SURFACES OF COMPUTER WITH ALUMINUM FILLED EPOXY PER NO. 1002280, EXCEPT SURFACE "A" AND ADJACENT RADII.
20. SEE SHEET 2.
21. SEE SHEET 2.
22. SEE SHEET 2.

SURFACE "A"
SEE NOTES 17 & 18

5 SEE NOTE 17

CHART A FOR -031				
LEAD NO.	CONDUCTOR MATERIAL	INSULATION COLOR	DESTINATION	
2	COPPER	BLUE	GG80T	T1
3	CONSTANTAN	RED	GG80T	T1
4	COPPER	BLUE	GG80T	T2
5	CONSTANTAN	RED	GG80T	T2
6	COPPER	BLUE	GG80T	T2
7	CONSTANTAN	RED	GG80T	T2

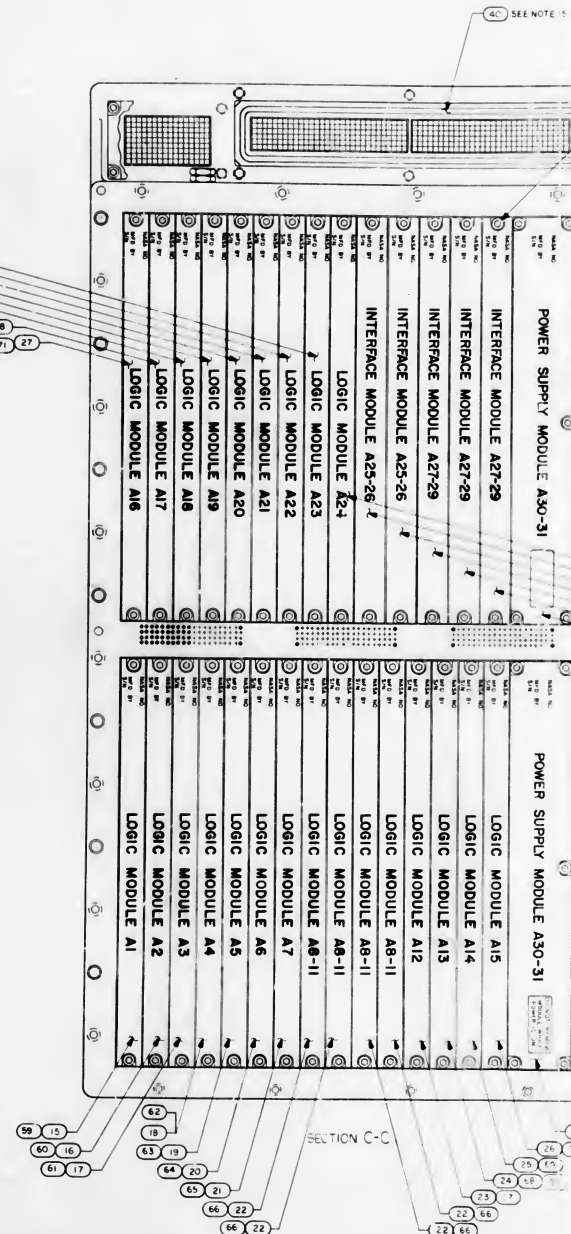
CHART B FOR -041				
PIN NO.	SOCKET NO.	INSULATION COLOR	DESTINATION	
1	100883-002	BLUE	GG80T	T1
2	100883-003	RED	GG80T	T1
3		BLUE	GG80T	T2
4		RED	GG80T	T2
5		BLUE	GG80T	T2
6		RED	GG80T	T2



SECTION D-D

2003100

L

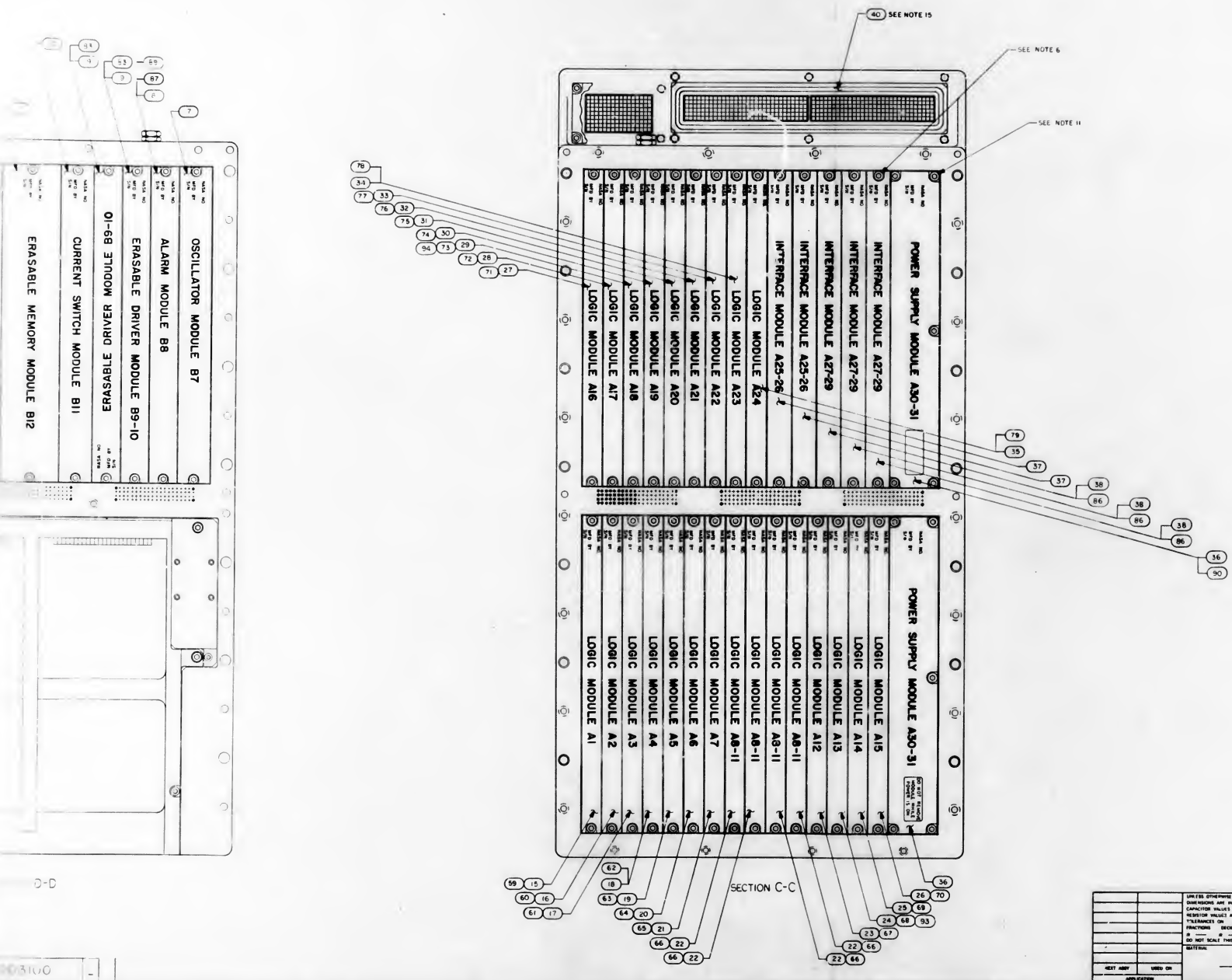


SECTION C-C

NOTES CONT:
20. LACE CABLE LEG OF FIND NO. 15 TO COMPUTER ASSY 2 PLACES USING FIND NO. 39
21. LACE CABLE LEG OF FIND NO. 36 TO COMPUTER ASSY 4 PLACES USING FIND NO. 39
22. FORM AND LACE FIND NO. 5, WITHIN DIMENSIONS SHOWN.

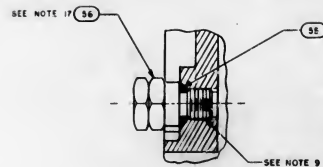
SEE NOTE 17 50
SEE NOTE 17 54

REVISIONS				
NO.	DATE	DESCRIPTION	BY	APP.
A	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
B	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
C	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
D	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
E	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
F	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
G	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
H	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
I	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
J	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
K	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.
L	10/1/68	REVISED PER TORR 23136	W. J. H.	W. J. H.

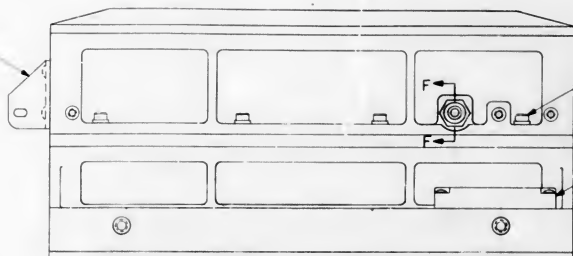


PART OR IDENTIFYING NO. 80230 J		NOMENCLATURE OR DESCRIPTION COMPUTER ASSEMBLY	
UNIT OF MEASUREMENT INCHES			
DRAWING NO. 80230 J			
SHEET NO. 2 OF 2			

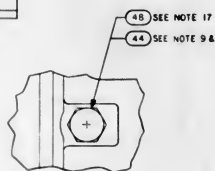
E 2 / 2



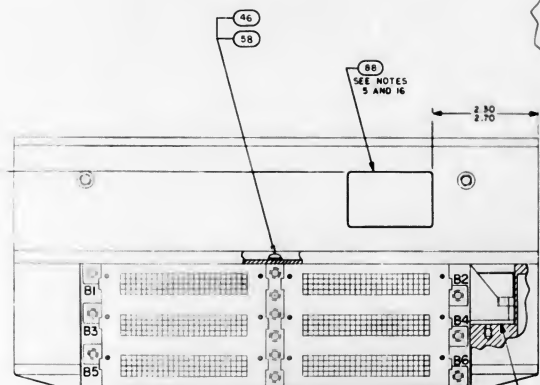
PARTIAL SECTION F-F
SCALE: 2/1



VIEW B-B



VIEW E-E

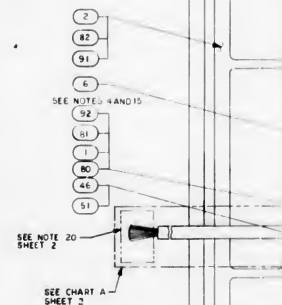
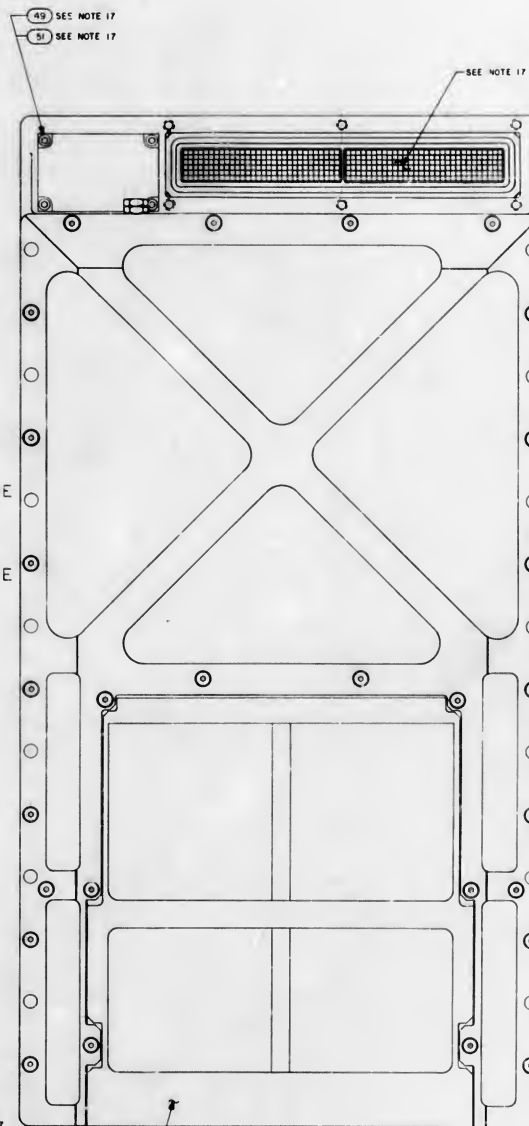


VIEW A-A

NOTES:

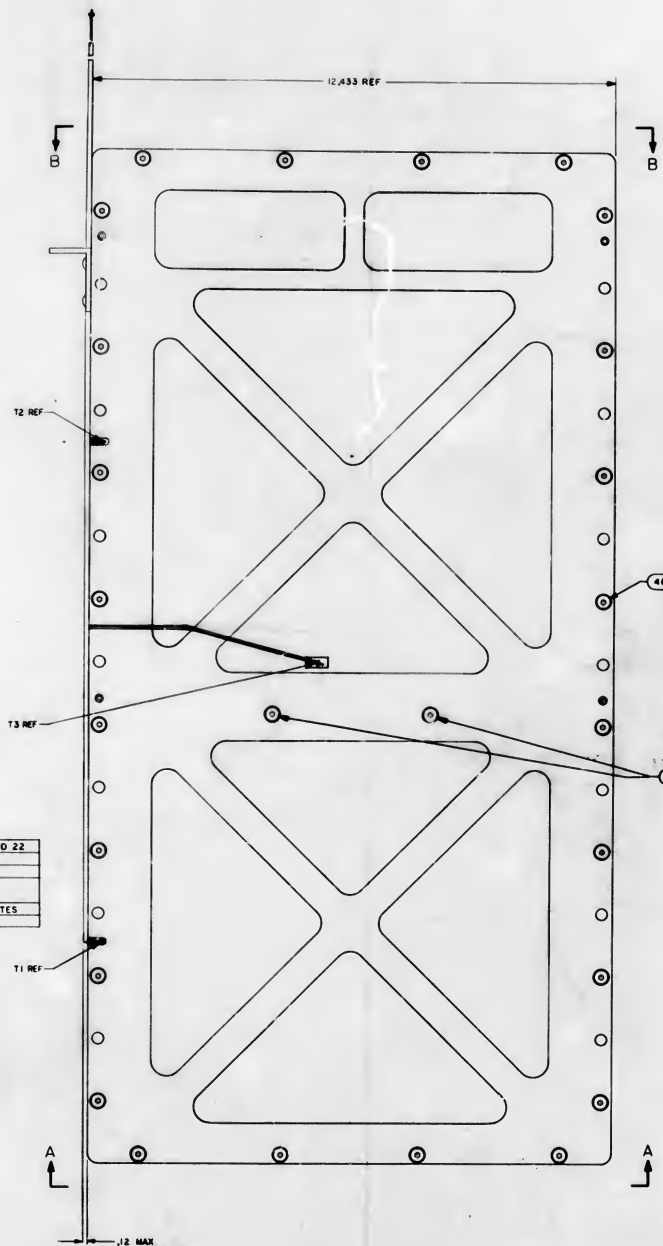
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70727.
2. DIMENSION LINES DENOTE AOC. COUPLER AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. ASU SILICONE GREASE 1006879 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES.
4. ASSEMBLE FIND NO. 53 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 OR 82 PRIOR TO ASSEMBLY OF FIND NO. 2 OR 82 TO FIND NO. 6 OR 81.
5. TORQUE: FIND NO. 43 AND FIND NO. 89 TO FIND NO. 2 OR 82 PER NO. 1002004 TYPE 2E.
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS.
7. TORQUE FIND NO. 47 TO 28/32 INCH POUNDS.
- 8.
9. APPLY SEALING COMPOUND MIL-S-22473 GRADE A TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44.
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF THE APPLICABLE RS.
11. TORQUE FOR FIND NO. 36 MOUNTING SCREWS TO BE 4/6 INCH POUNDS.
12. TORQUE FOR FIND NO. 46, 49 AND 50 TO BE 18/22 INCH POUNDS.
13. TORQUE FOR FIND NO. 53 TO BE 4/6 INCH POUNDS.
14. TORQUE FOR FIND NO. 44 TO BE 140/160 INCH POUNDS.
15. FIND NO. 36.40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
16. MARK "COMPUTER 4557" AND RELATED PART NO., APPLICABLE DASH NO., SERIAL NO. AND CONTRACT NO. PER 1004260.
17. SERIALS PER NO. 1002023.
18. PRIME PER NO. 1002279 USING 100992, EXCEPT THE FOLLOWING PARTS AND SURFACES:
 - A) FIND NO. 44, 46, 49, 50, 54, 56, AND FIND NO. 58.
 - B) 451 CONNECTOR FEMALE MALCO PINS AND INSULATORS.
 - C) ALL EXPOSED TAPPED HOLES.
 - D) ALL EXPOSED SURFACES OF FIND NOS. EXCEPT SURFACE "X" AND ADJACENT RADII.

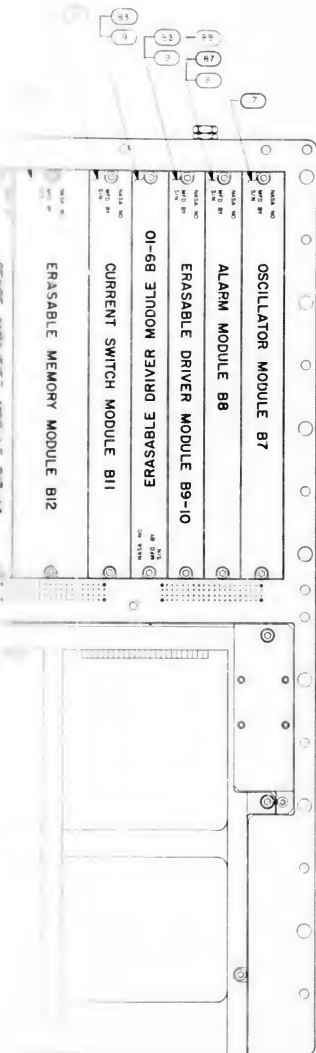
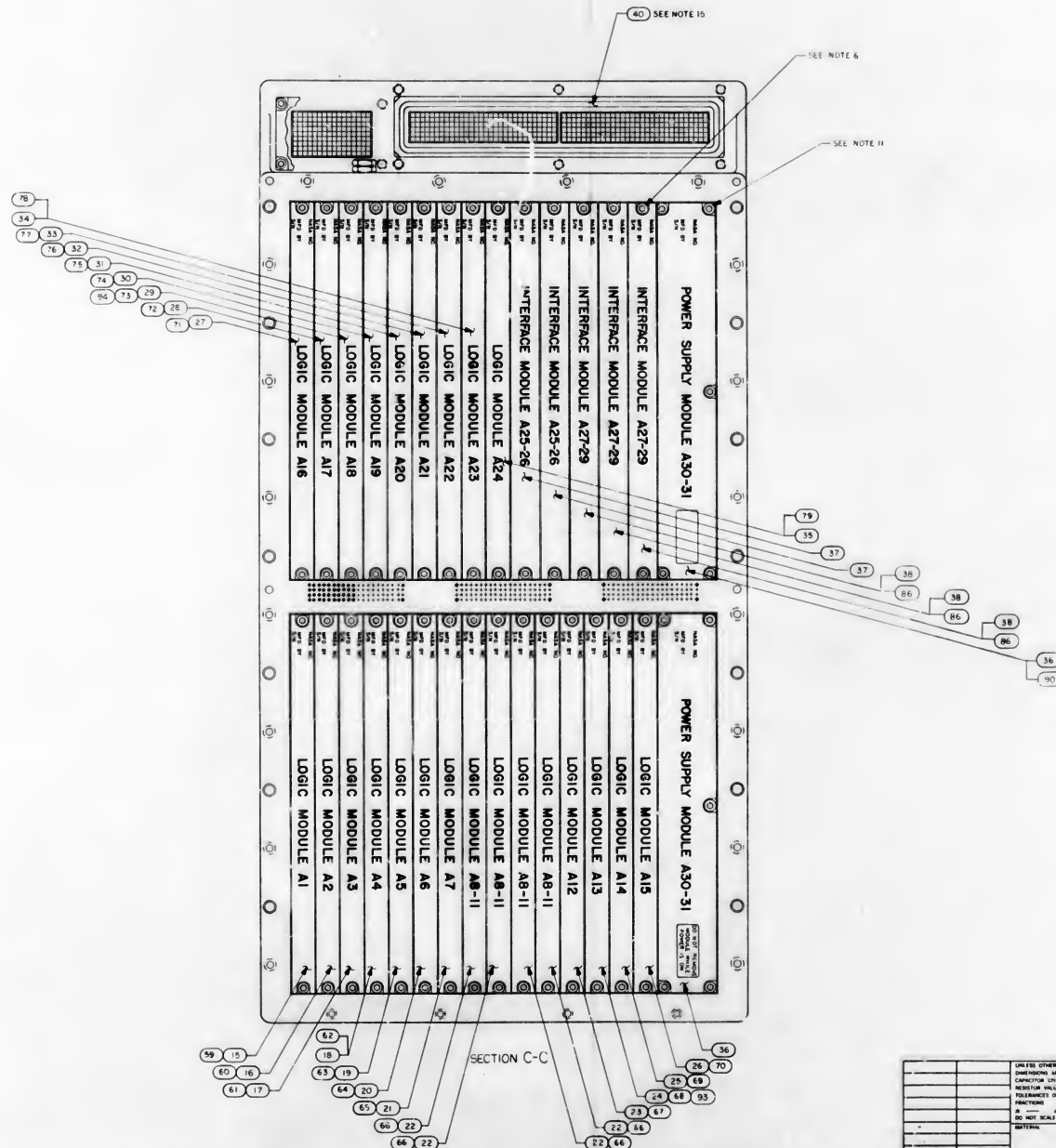
16. PAINT SURFACE "X" AND ADJACENT RADII FIRST COAT PER NO. 1002279 USING 100809-1 AND SECOND COAT PER NO. 1002279 USING 1012343-003.
19. PAINT ALL EXPOSED SURFACES OF COMPUTER WITH ALUMINUM FILLED EPOXY PER NO. 1002289, EXCEPT SURFACE "X" AND ADJACENT RADII.
20. SEE SHEET 2.
21. SEE SHEET 2.
22. SEE SHEET 2.

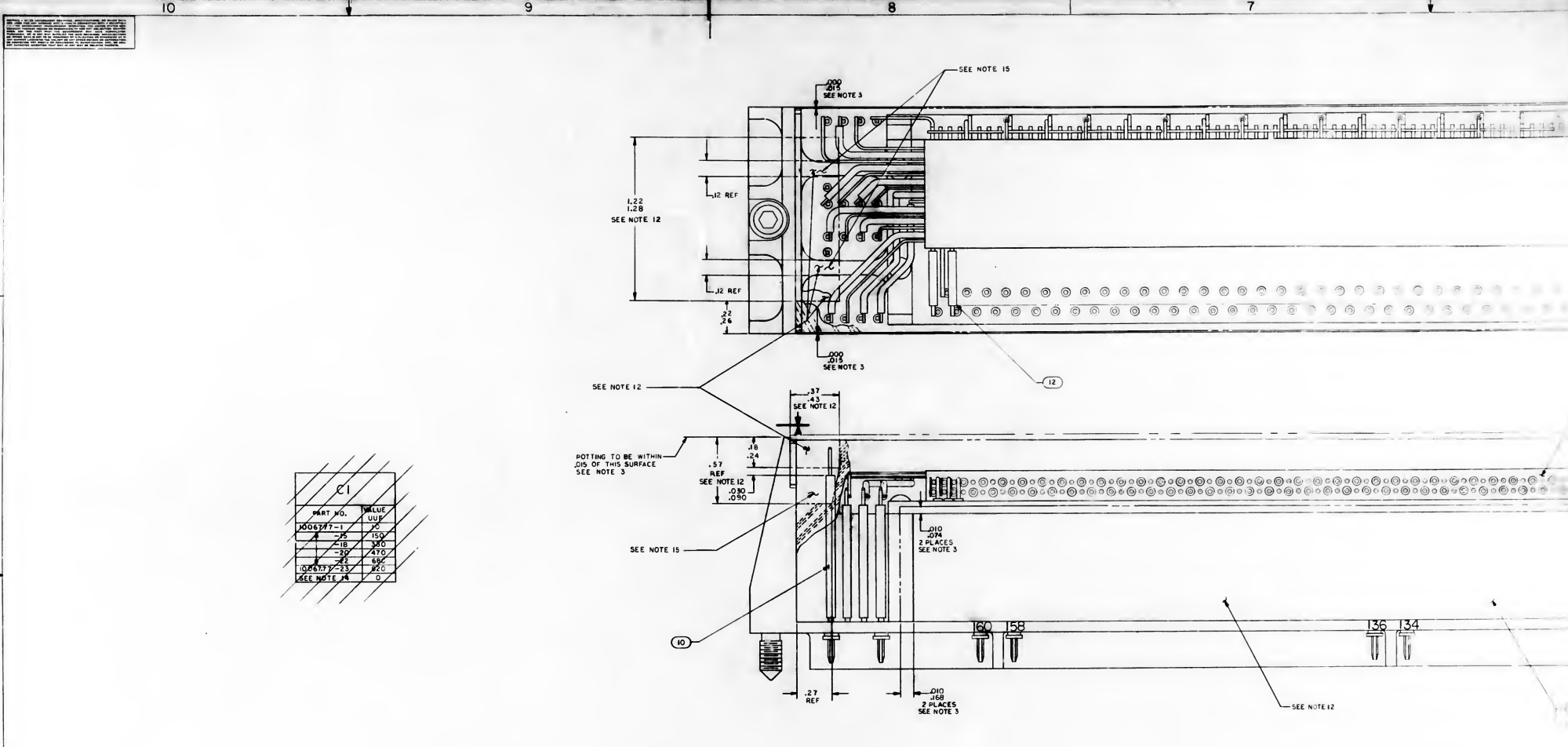


SEE NOTE 17 (47)
SEE NOTE 17 (52)

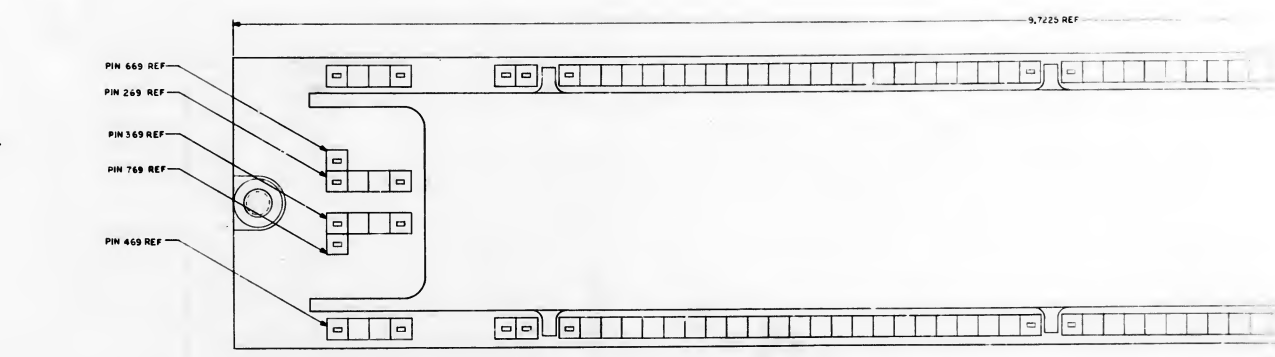
SEE NOTE 17 (46)
SEE NOTE 17 (51)

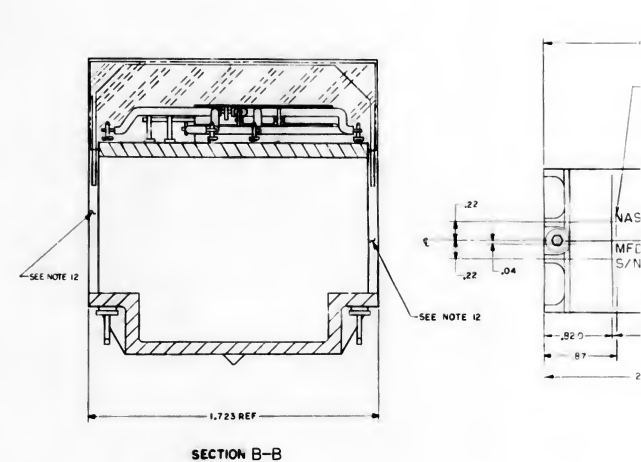
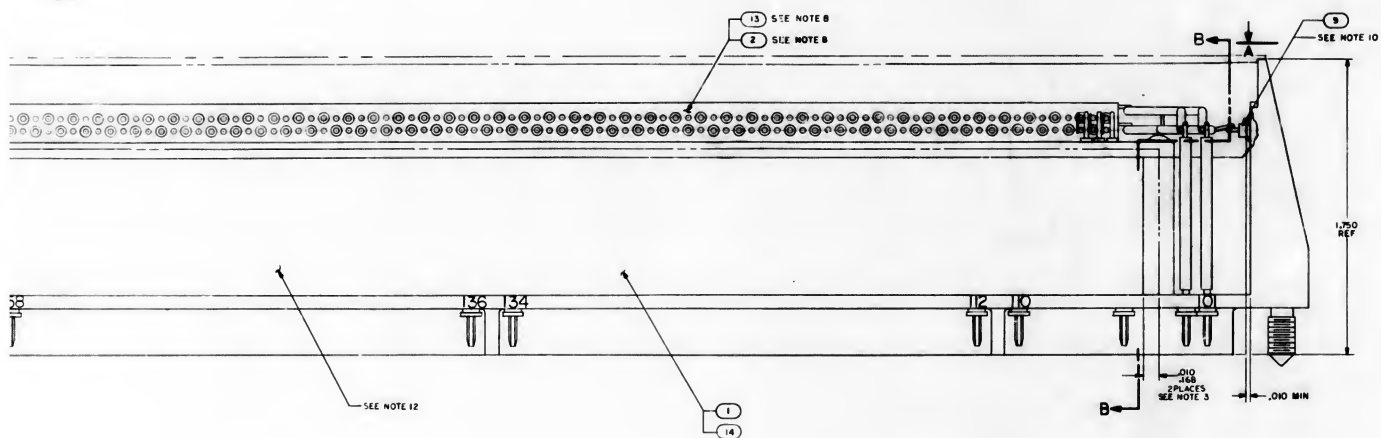
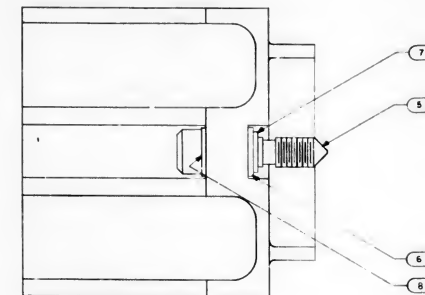
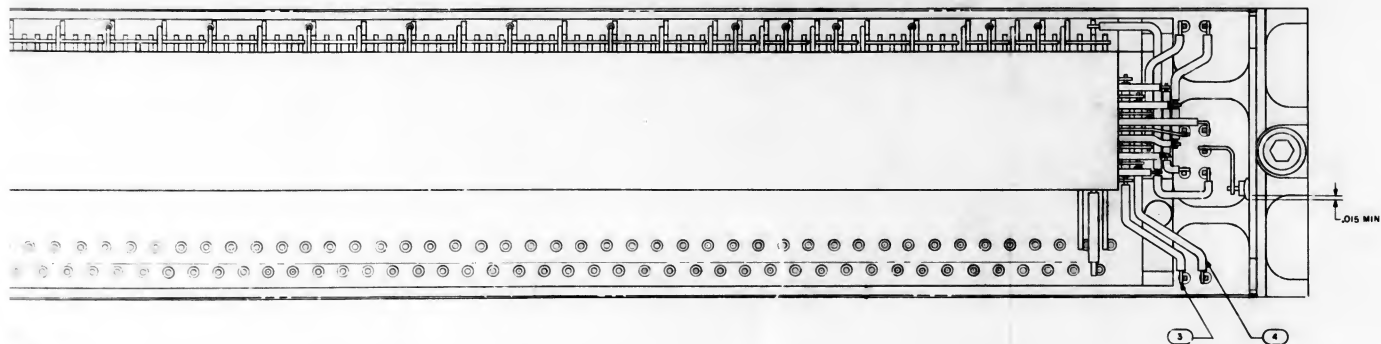
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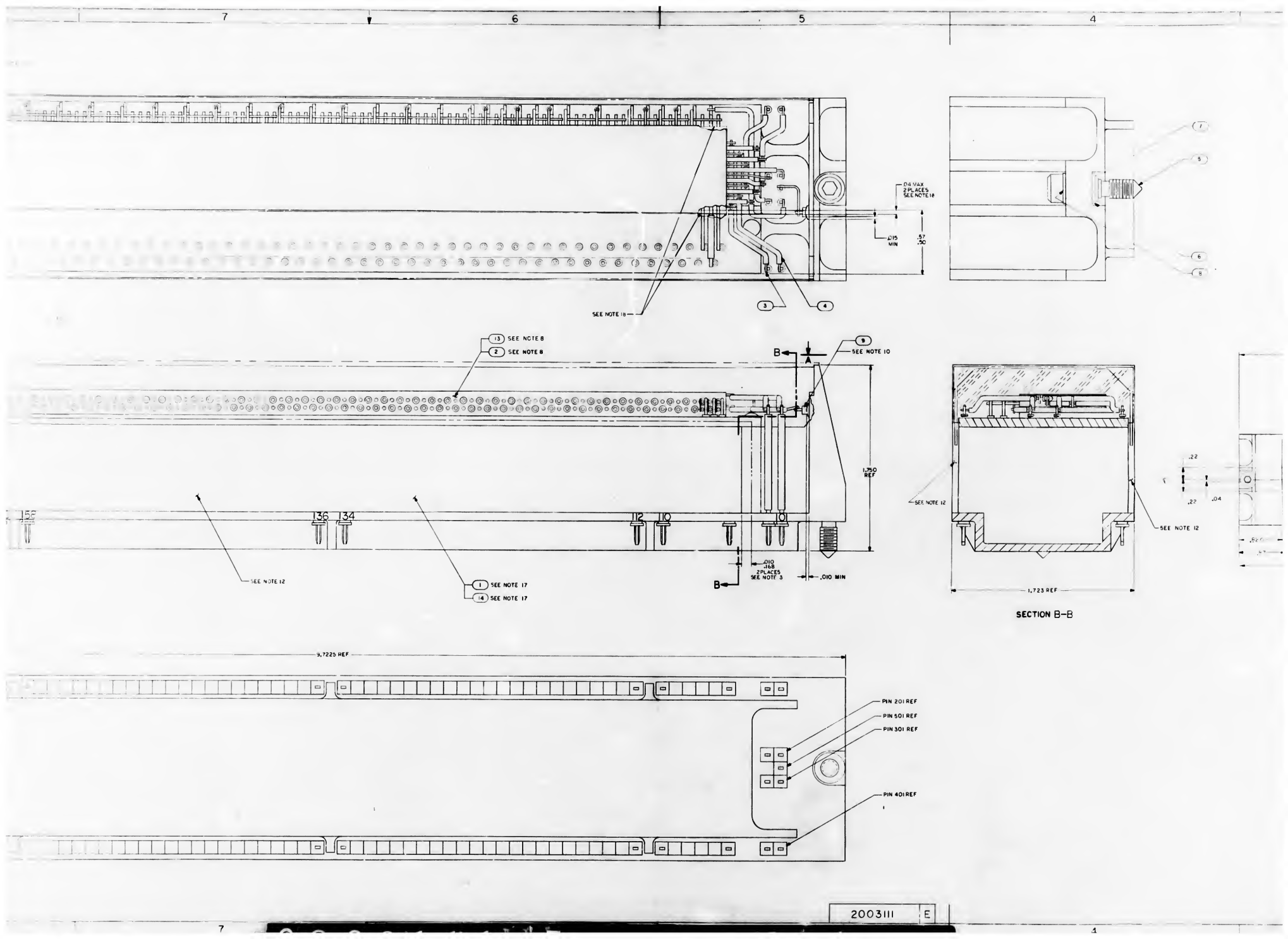
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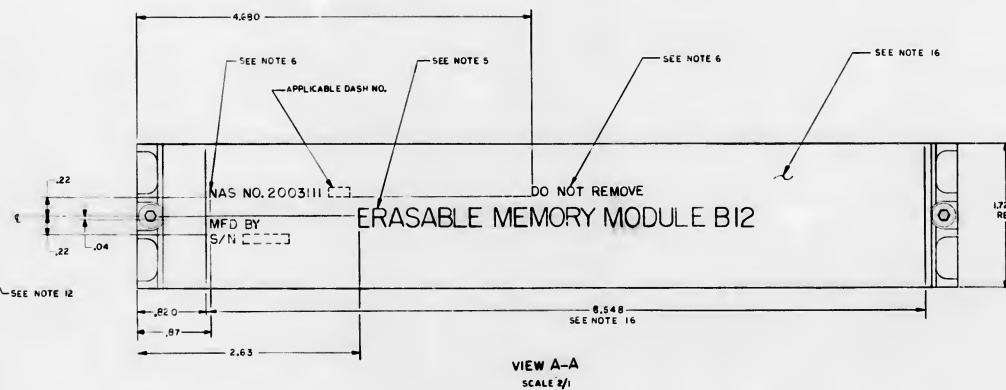
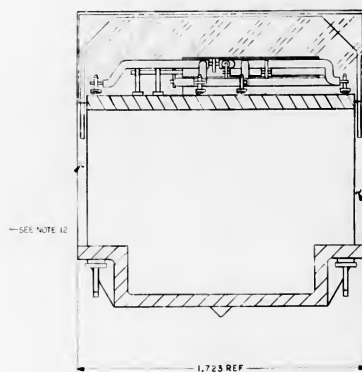
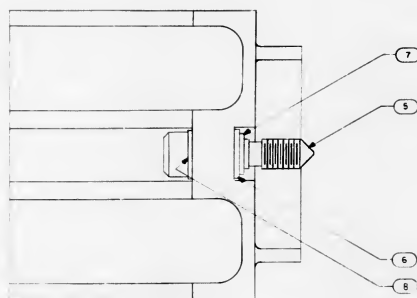


- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 2. WELD PER ND 1002005.
 3. ENCAPSULATE PER ND 1002034 METHOD B.
 4. AR DENOTES AS REQUIRED.
 5. MARK .26/.24 HIGH WHITE CHARACTERS PER ND 1002019 AND ND 1002022, TYPE II CLASS 2 USING INK 1006277-1.
 6. MARK .10/.08 HIGH WHITE CHARACTERS PER ND 1002019 AND ND 1002022, TYPE II CLASS 2 AND SERIALIZE PER ND 1002023 USING INK 1006277-1.
 7. UNLESS OTHERWISE SPECIFIED ALL WORK SHALL BE IN ACCORDANCE WITH ND 1002069.
 8. BOND FIND NO. 2 TO FIND NO. 1 OR FIND NO. 13 TO FIND NO. 14 PER ND 1002004 TYPE II.
 9. THE VALUE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART.
 10. SEAL FIND NO. 9 TO FIND NO. 1 AND FIND NO. 14 PER ND 1002004 TYPE II.
 11. MOUNTING TORQUE FOR FIND NO. 9 TO BE 15 TO 20 INCH OUNCES.
 12. DO NOT ENCAPSULATE THIS AREA BOTH SIDES & CAVITY ON TOP.
 13. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 2003111.
 14. WHEN THE VALUE OF C1 IS 0 NO COMPONENT SHALL BE USED.
 15. CAVITY WELLS OPTIONAL FOR TOOLING PURPOSES DO NOT ENCAPSULATE.
 16. PAINT SURFACE INDICATED RED USING MARKING INK 1006277-9.







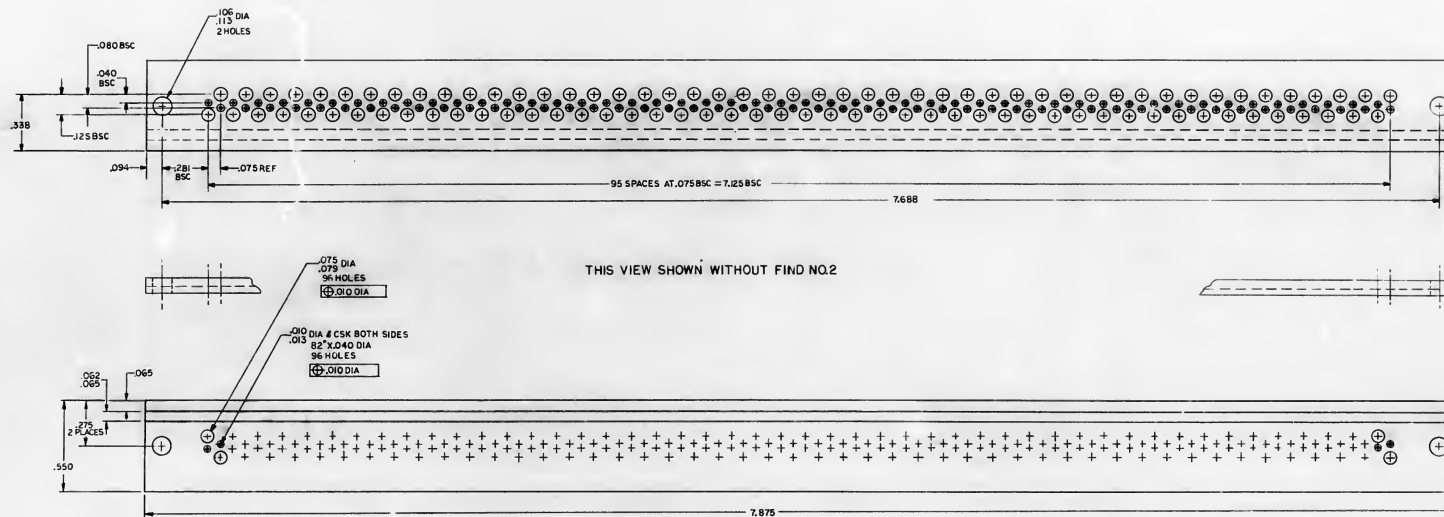


...IN 4Q15F

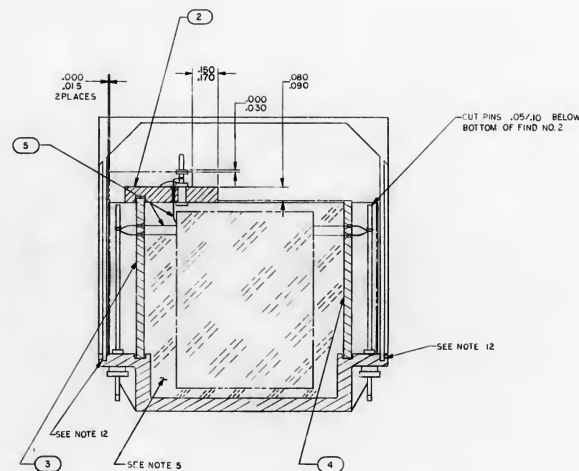
[illegible]

2003993 2003200		NEXT ABY USED ON APPLICATION		LINES CHANGED ARE IN RED DIMENSION VALUES AND IN J SECTION VALUES ARE IN CH TOLERANCES ON REVISIONS: 0.0000 0.0000 0.0000 0.0000 DO NOT SCALE FROM DRAWING		M I T INSTRUMENTATION LAB DRAWN: <i>[Signature]</i> CHECKED: <i>[Signature]</i> APPROVED: <i>[Signature]</i>		MANNED SPACE CENTER HUNTSVILLE, TEXAS ERASABLE MEMORY B12 ASSEMBLY		CODE IDENT NO. 100 80203J DRAWING NO. 2003111		SHEET 1 OF 1	
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F-3 / 3

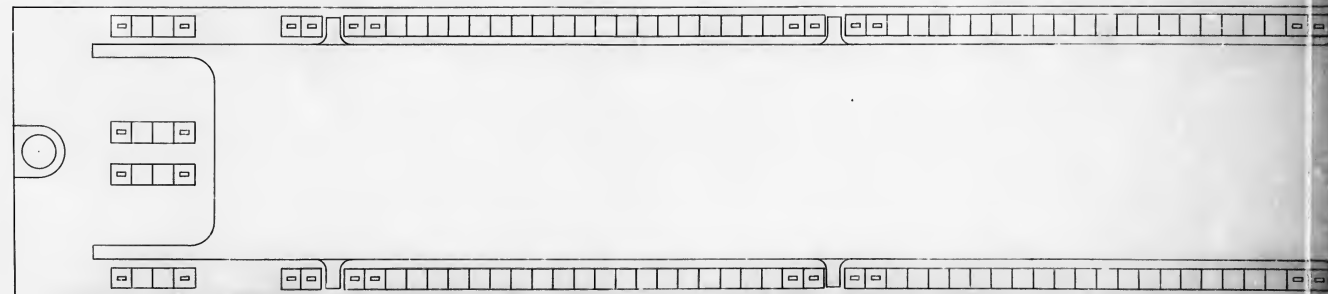
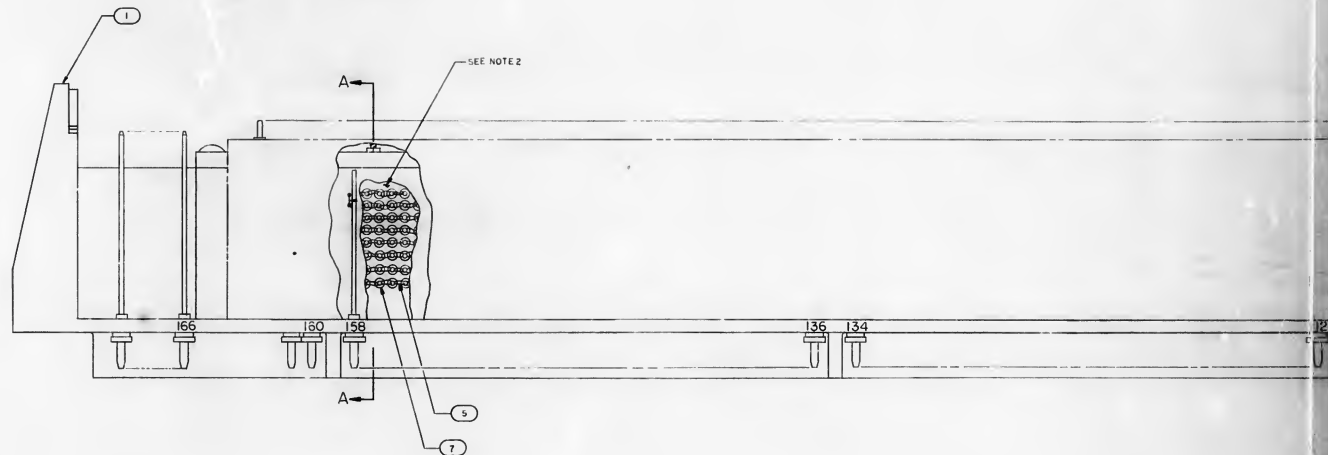
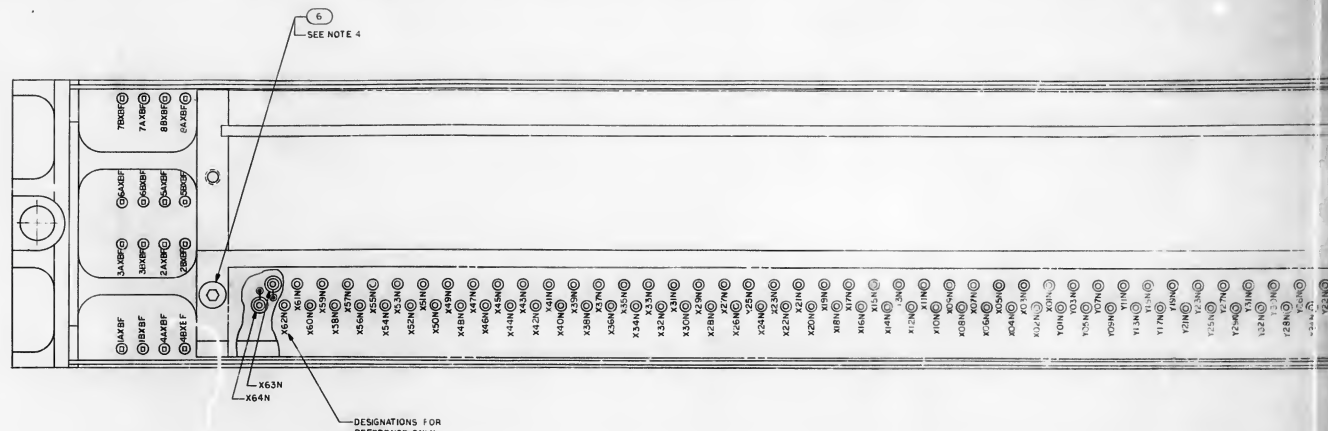


- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: PLASTIC SHEET, .093 THICK, LAMINATED PER MIL-P-18177 TYPE GEE
 3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005/.015
 4. ALL FILLETS AND RADIUS TO BE .010 MAX
 5. IDENTIFY WITH DRAWING NUMBER & REVISION PER ND1002019



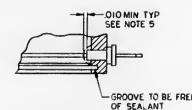
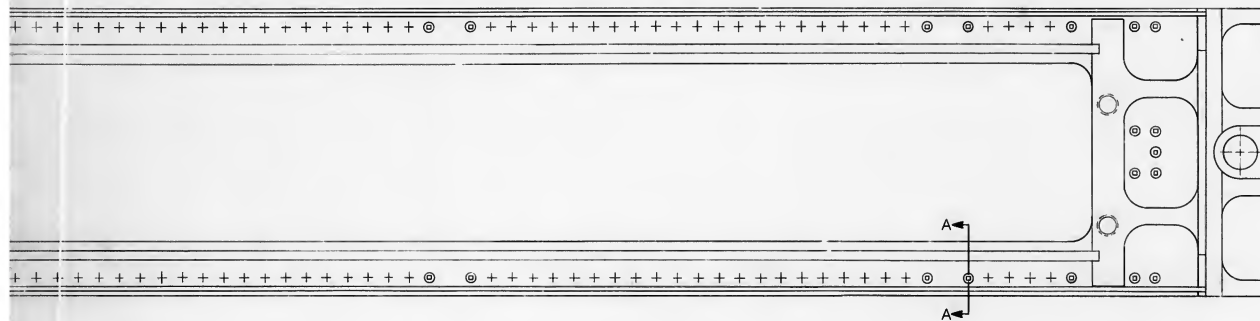
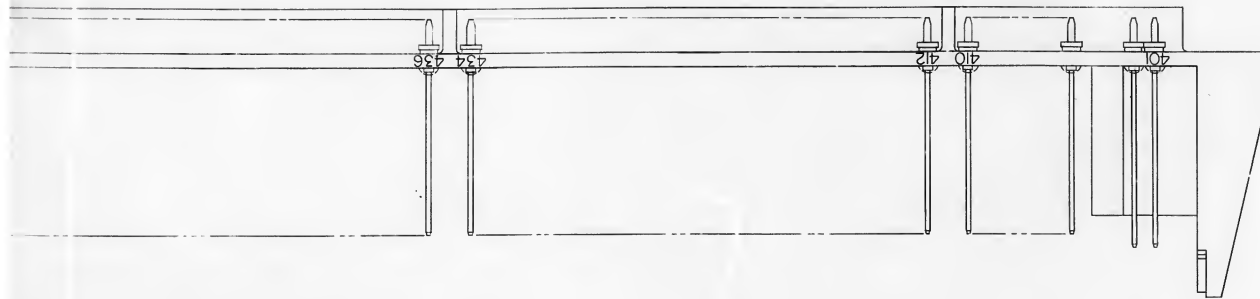
SECTION A-A

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
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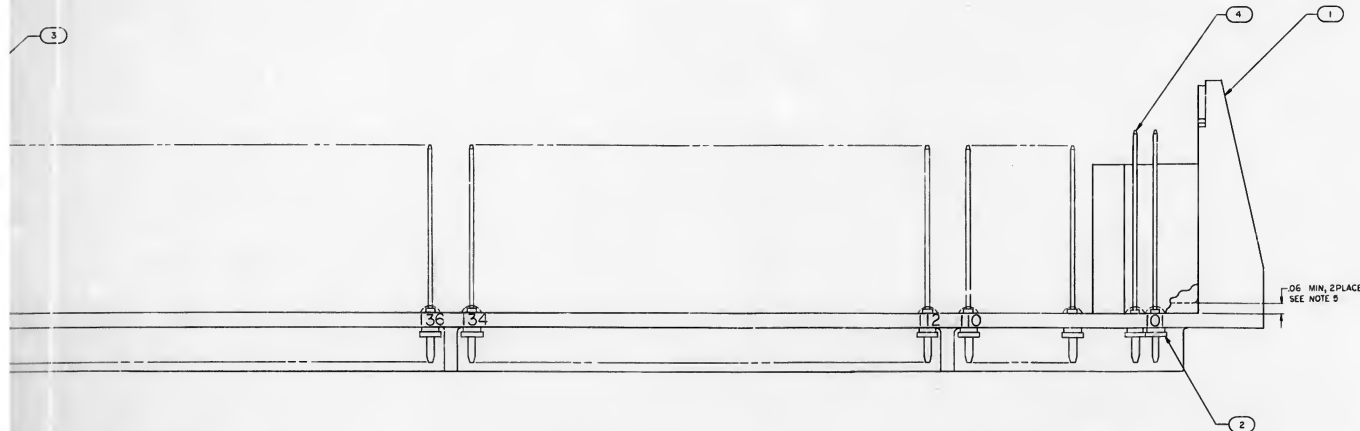


NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WATS TO BE FOLDED PER DRAWING NO. 2008007 AND ASSEMBLED TO FIND NO. 1 SUCH THAT THE Y LINE TERMINATIONS ARE ADJACENT TO THE LINE OF PINS Y02N-Y01N
3. STACK WIRING TERMINATIONS TO BE SOLDERED AS DESIGNATED BY MARKING ON FIND NO. 1, FIND NO. 2, FIND NO. 3 AND FIND NO. 4
4. COAT THREADS OF FIND NO. 6 WITH WET ZINC CHROMATE PRIMER PER MIL-P-8585
5. ENCAPSULATE PER ND1002002, METHOD F
6. ENCAPSULATE PER ND1002002. REMOVE FLASHING
7. AR DENOTES AS REQUIRED
8. IDENTIFY WITH DRAWING NUMBER & REVISION PER ND1002019
9. THE SOLDERING TECHNIQUE SHALL CONFORM TO ND1002076, EXCEPT THAT A MIN OF 2.5 TURNS & A MIN OF 3.5 TURNS SHALL BE SOLDERED. IN ADDITION 1.5 TURNS MIN SHALL BE LEFT UNSOLDERED FOR STRESS RELIEF PURPOSES
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS200009
11. X & Y WIRES SHALL BE CONTINUOUS THROUGHOUT THE 16 DIGIT PLANES. SENSE & INHIBIT WIRES SHALL BE CONTINUOUS IN EACH DIGIT PLANE. NO SPLICES ARE ALLOWED
12. GROOVES TO BE FREE OF ENCAPSULANT



SECTION A-A

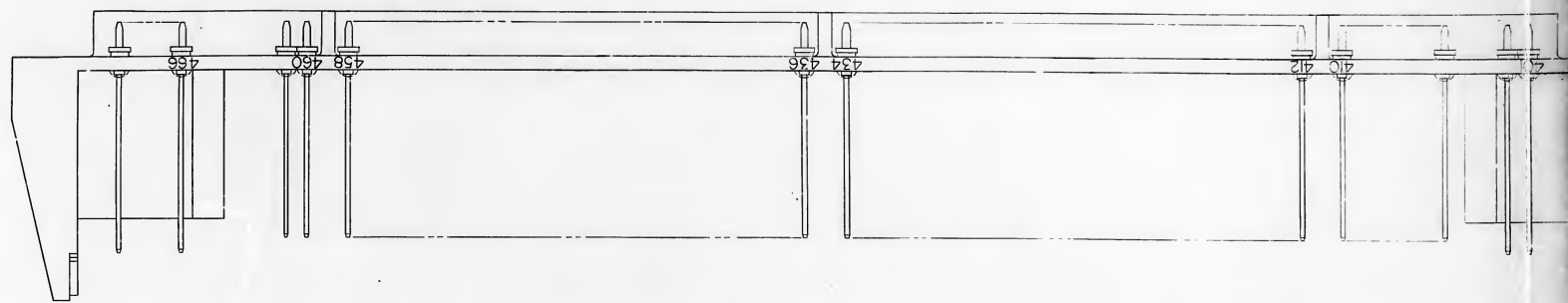


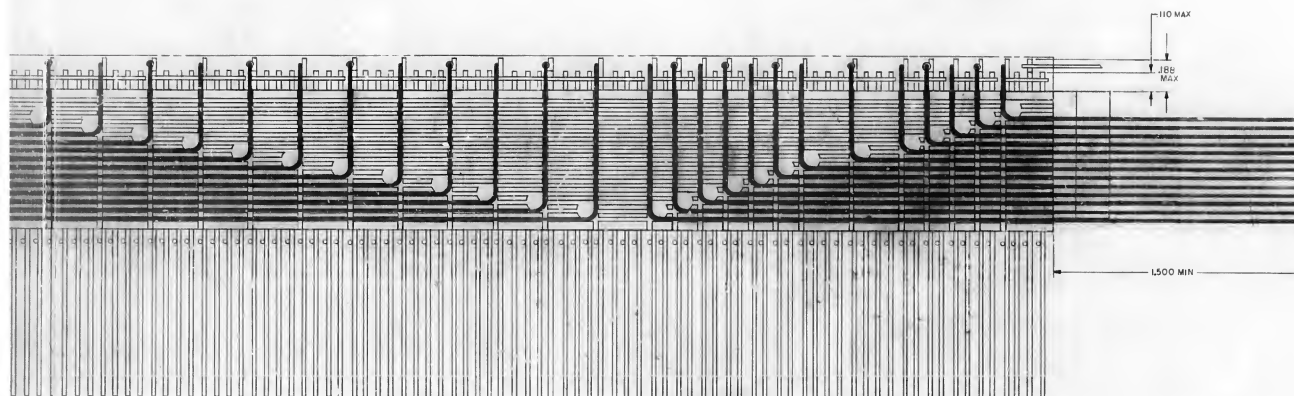
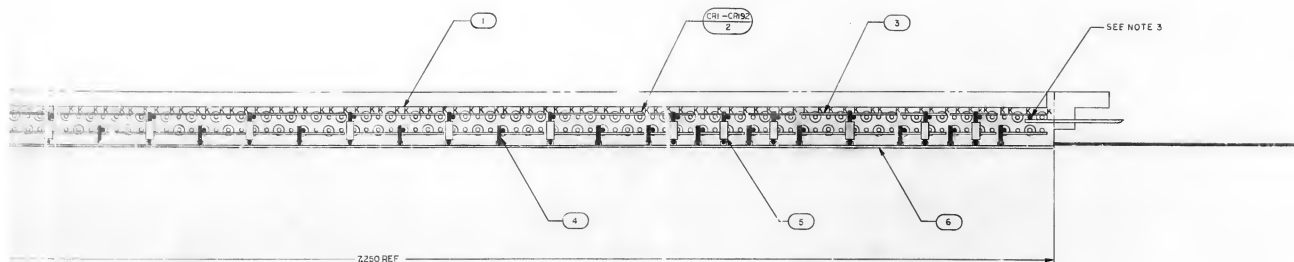
25	1005782-5	CONTACT WRAPOST-MALE MINAT	4
108	1005782-4	CONTACT WRAPOST-MALE MINAT	3
133	1005779	INSULATOR WRAPOST-MALE MINAT	2
1	2003009	HEADER HOUSING	1
QTY		NAME/CLATURE OR	FUNC
IDENTIFYING NO		DESCRIPTION	NO
LIST OF MATERIALS			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES X Y Z DO NOT SCALE THIS DRAWING MATERIAL		INSTRUMENTATION LAB DRAWN BY: <i>[Signature]</i> DATE: <i>[Date]</i> CHECKED BY: <i>[Signature]</i> DATE: <i>[Date]</i> APPROVAL: <i>[Signature]</i> DATE: <i>[Date]</i>		MANNED SPACECRAFT CENTER HOUSTON TEXAS HEADER HOUSING ASSY ERASABLE MEMORY	
2003009	TEST TREATMENT	TEST APPR	USED ON	SCALE 4/1	SHEET 1 OF 1 2003010

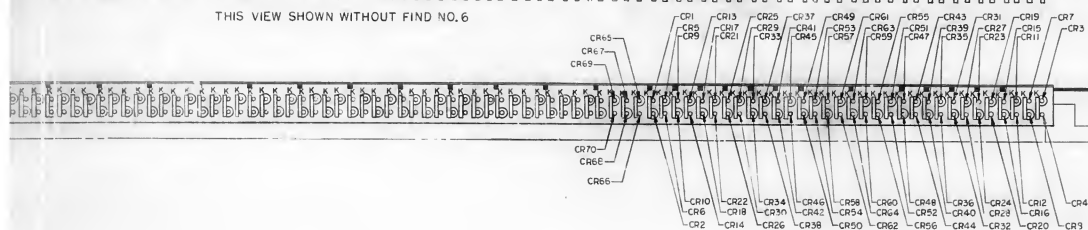
THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS LOANED TO YOUR AGENCY FOR YOUR INFORMATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT PRINTING OFFICE.

D

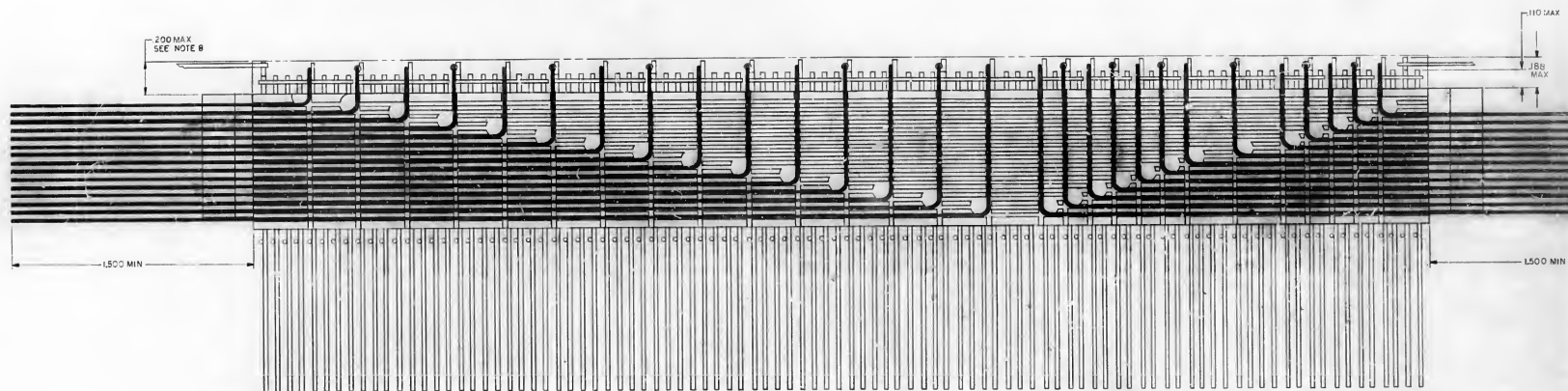
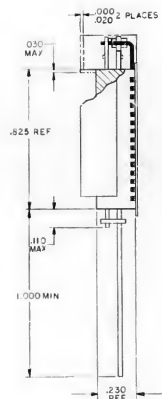
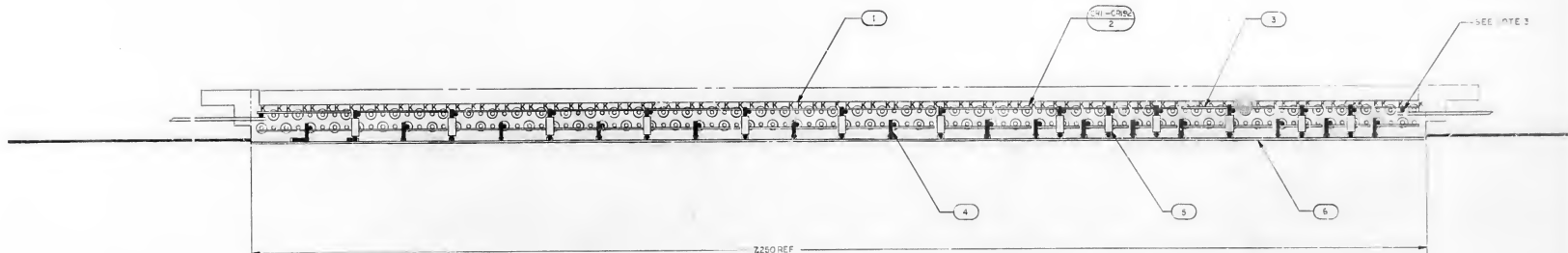




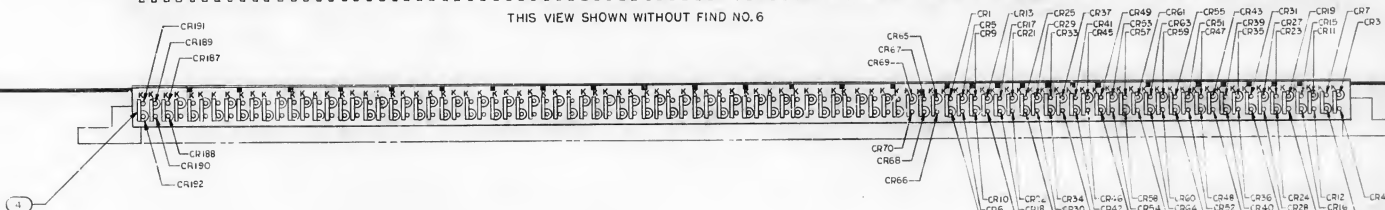
THIS VIEW SHOWN WITHOUT FIND NO.6

[illegible]

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS A
		DO NOT SCALE THIS DRAWING MATERIAL
2003011		HEAT TREATMENT
INERT ASSY	USED ON	FINAL FUSED

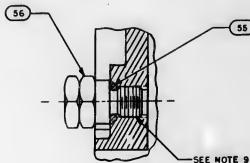


THIS VIEW SHOWN WITHOUT FIND NO. 6

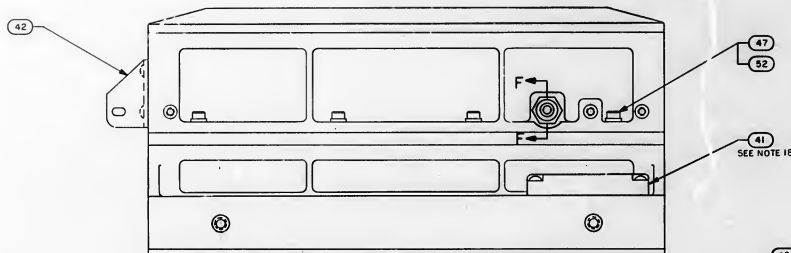


- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS DESCRIBED BY MIL-D-70327
 2. VELD PER 451002005
 3. ■ BLACK DOTS INDICATES UPPER LEVEL WIRING
 4. * □ NOTES CATHODE SIDE OF DIODES
 5. AP DENOTES AS REQUIRED
 6. STAKE ALL DIODES PER N01002009, METHOD C OR D
 7. IDENTIFY WITH DRAWING NUMBER & REVISION PER N01002019
 8. ENCAPSULATE PER
 9. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH N01002009

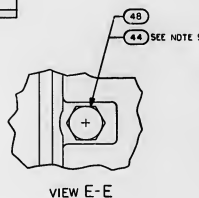
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGC COLORPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. 100 SILICONE GREASE 100GB79 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
4. ASSEMBLE FIND NO. 53 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 1
5. BOND FIND NO. 43 TO FIND NO. 2 PER N1002004 TYPE II
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS
7. TORQUE FIND NO. 47 TO 28/32 INCH POUNDS
8. FINISH IS REQUIRED TO SATISFY ICD GAC 510-10001
9. APPLY SEALING COMPOUND MIL-S-22473 GRADE A TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF 2003101 OR 6003001
11. TORQUE FOR FIND NO. 36 MOUNTING SCREWS TO BE 4/6 INCH POUNDS
12. TORQUE FOR FIND NO. 46, 49 AND 50 TO BE 19/22 INCH POUNDS
13. TORQUE FOR FIND NO. 53 TO BE 4/6 INCH POUNDS
14. TORQUE FOR FIND NO. 44 TO BE 140/160 INCH POUNDS
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. MARK COMPUTER ASSEMBLY AND RELATED PART NO. APPLICABLE DASH NO., SERIAL NO. AND CONTRACTING NO. PER 1004260 AND SERIALIZE PER N1002003
17. FINISH SURFACE ± 0.001 PER ICD NAA MH01-01302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICD NAA MH01-01302-116
18. FIND NO. 1 THRU 6 AND FIND NO. 41 TO BE ELECTRICALLY BONDED, RESISTANCE BETWEEN ANY TWO ITEMS TO BE LESS THAN 10 MILLI OHMS
19. LEAK TEST: PURGE AND FILL WITH 30.10 PSIA DRY NITROGEN, STORE AT ROOM AMBIENT FOR 24.5 HOURS. TEST PRESSURE FOR $\Delta P < 0.5$ PSIA. ALL MEASUREMENTS MADE AT STANDARD TEMPERATURE $\pm 2^\circ\text{C}$ TEST SHALL BE PERFORMED WITH 200400 INSTALLED, FOLLOWING TEST BLEED TO 17 ± 1.0 PSIA



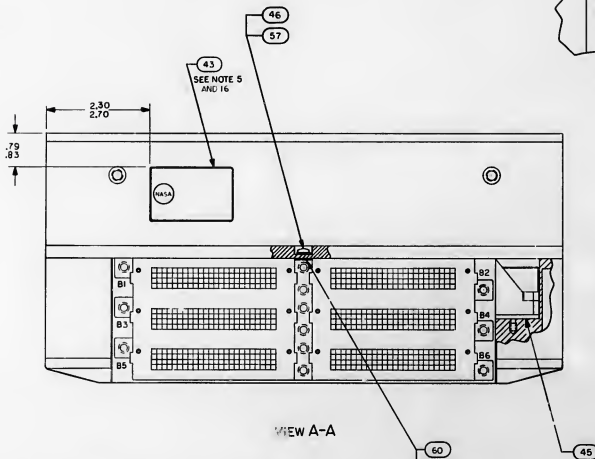
PARTIAL SECTION F F
SCALE: 2/1



VIEW B-B



VIEW E-E

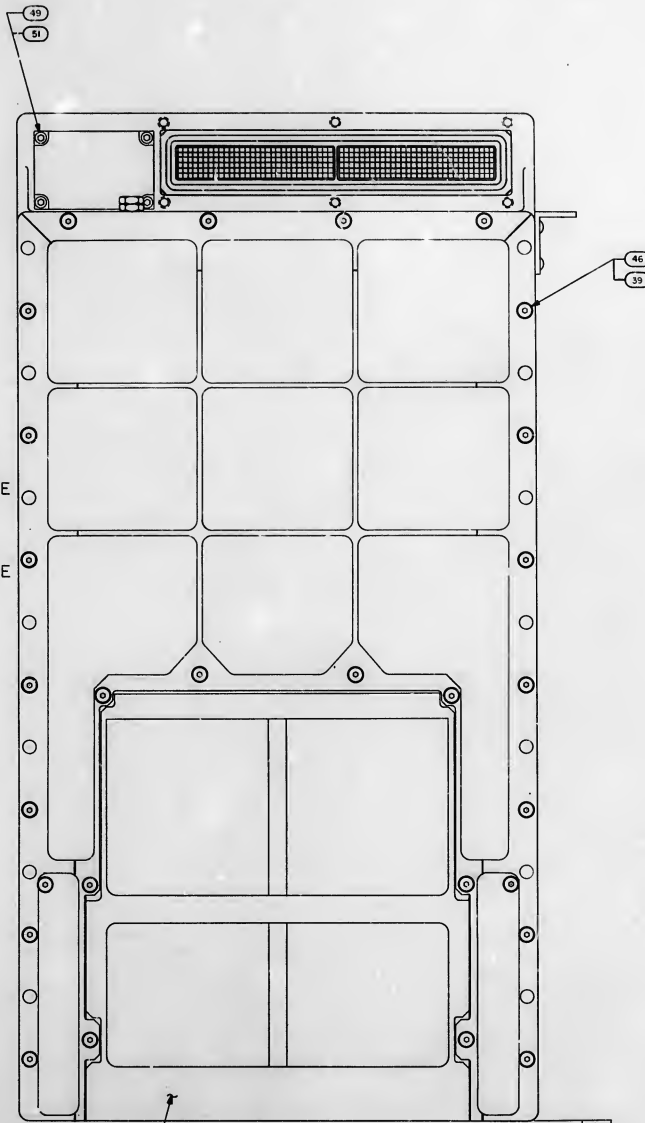


VIEW A-A

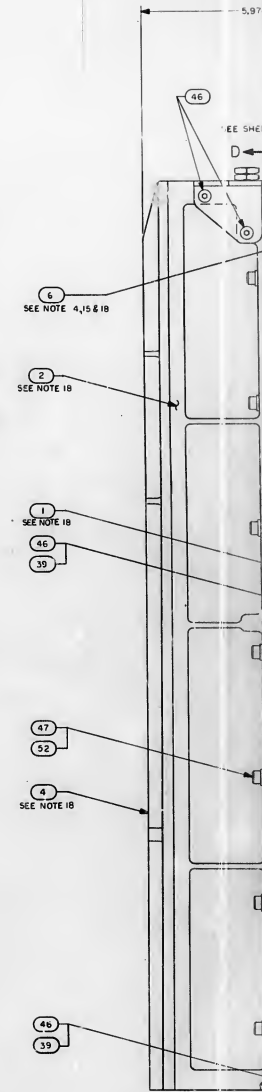
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGC COLORPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
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8. FINISH IS REQUIRED TO SATISFY ICD GAC 510-10001
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10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF 2003101 OR 6003001
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13. TORQUE FOR FIND NO. 53 TO BE 4/6 INCH POUNDS
14. TORQUE FOR FIND NO. 44 TO BE 140/160 INCH POUNDS
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. MARK COMPUTER ASSEMBLY AND RELATED PART NO. APPLICABLE DASH NO., SERIAL NO. AND CONTRACTING NO. PER 1004260 AND SERIALIZE PER N1002003
17. FINISH SURFACE ± 0.001 PER ICD NAA MH01-01302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICD NAA MH01-01302-116
18. FIND NO. 1 THRU 6 AND FIND NO. 41 TO BE ELECTRICALLY BONDED, RESISTANCE BETWEEN ANY TWO ITEMS TO BE LESS THAN 10 MILLI OHMS
19. LEAK TEST: PURGE AND FILL WITH 30.10 PSIA DRY NITROGEN, STORE AT ROOM AMBIENT FOR 24.5 HOURS. TEST PRESSURE FOR $\Delta P < 0.5$ PSIA. ALL MEASUREMENTS MADE AT STANDARD TEMPERATURE $\pm 2^\circ\text{C}$ TEST SHALL BE PERFORMED WITH 200400 INSTALLED, FOLLOWING TEST BLEED TO 17 ± 1.0 PSIA

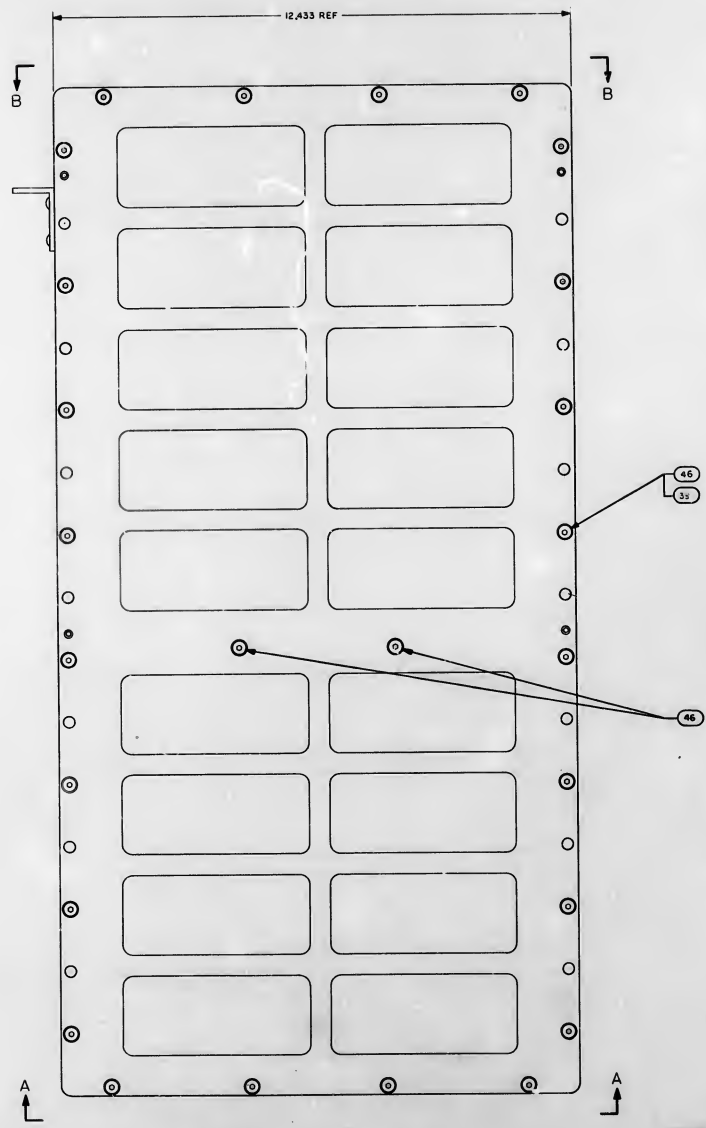
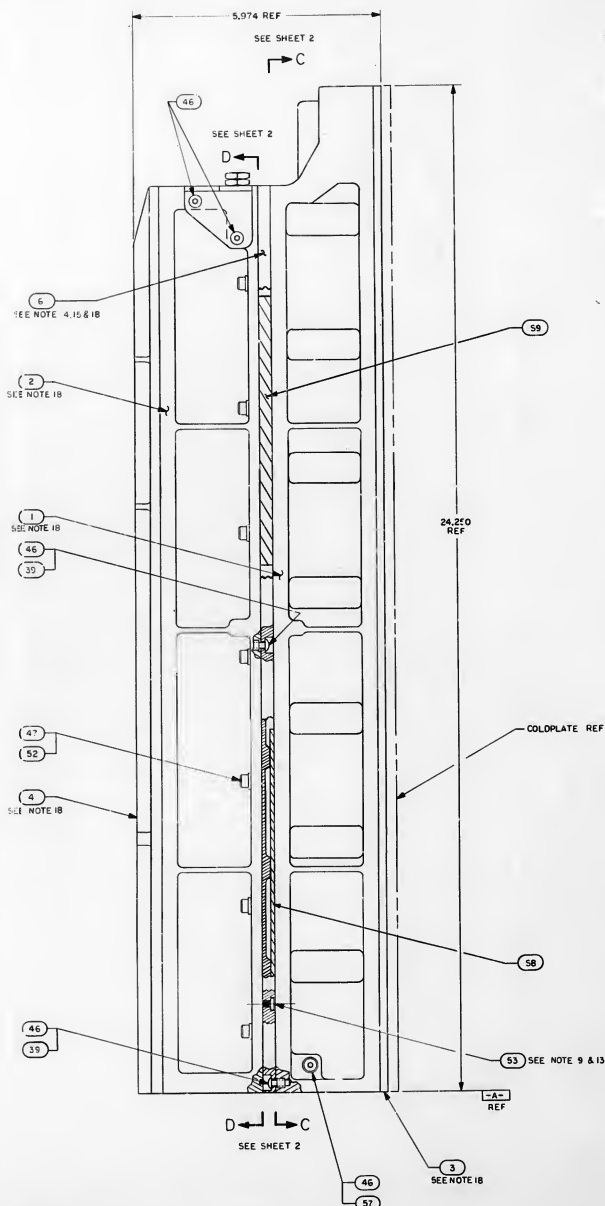
F1



SEE NOTE 19



2003200



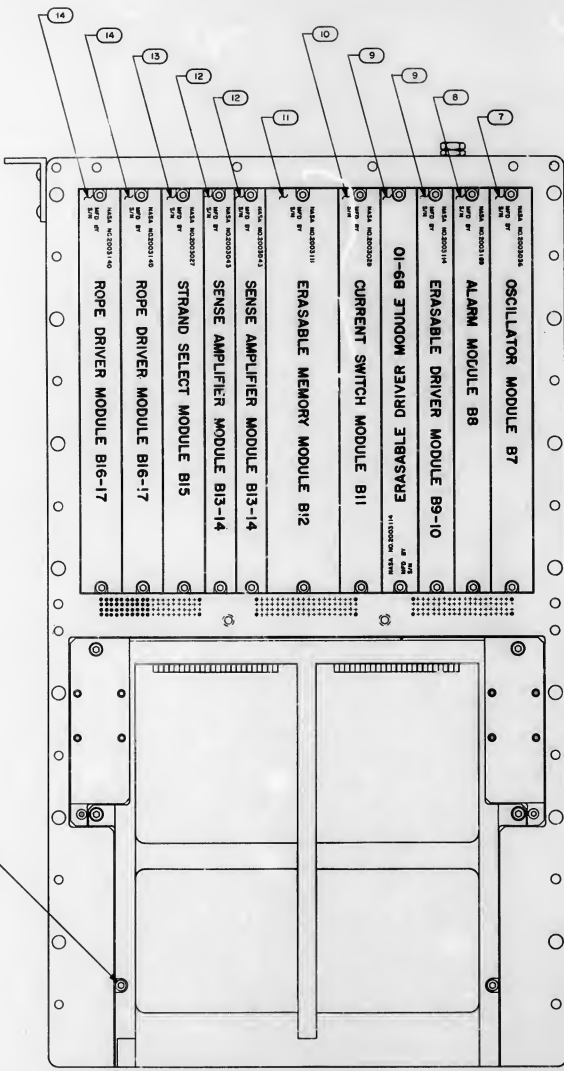
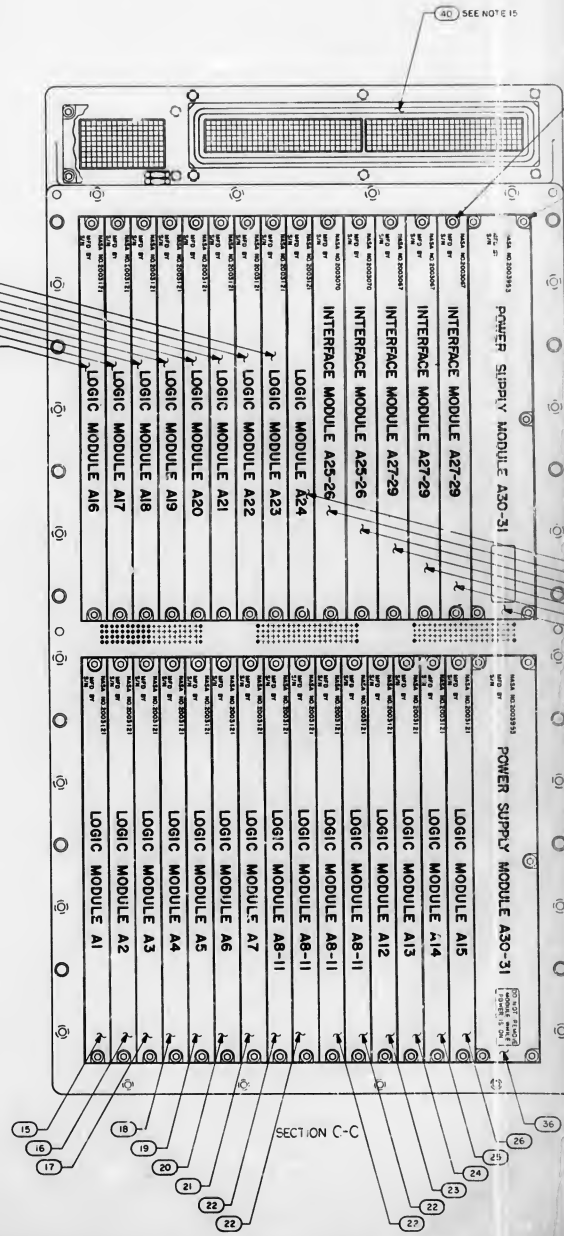
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AR 2004895-001	SHIM AGC	51
AR 2004895-002	PAD VIBRATION	59
1 2004899-001	PAD VIBRATION	59
4 2004899-001	WASHER SEALING	57
1 2018773	VALVE PRESSURE ASSEMBLY	56
1 1006159-5	PACKING, PREFORMED O-RING	52
2 1004894-001	WASHER, PLAT	54
3 2004985	P 3, THREADED	53
18 2004894-014	WASHER, PLAT	52
4 2004894-012	WASHER, PLAT	53
2 1001489-34	SCREW, HEX SOCKET HEAD	50
4 1004722-2	SCREW, CAPTIVE	49
1 100169-7	PACKING, PREFORMED O-RING	48
18 100169-14	SCREW, SOCKET HEAD, CAP	47
66 1006785-25	SCREW, BUTTOM HEAD, HEX SOCKET	45
2 1006347	GASKET, PLATE	44
1 2004986	PLUS, MACHINE THREAD	43
1 1004260-19	NAME PLATE, TYPE 2	42
1 2004987	BRACKET, CABLE	41
1 2004988	COVER, POTTED	40
1 1006380	GASKET, RETAINED	39
58 1004148-003	WASHER, PLAT	38
3 1003067-03	INTERFACE MODULE A27-29	37
2 1003070-02	INTERFACE MODULE A25-26	36
1 2003953-011	POWER SUPPLY MODULE A30-31	35
1 2003121-231	LOGIC MODULE A24	34
1 2003121-221	LOGIC MODULE A23	33
1 2003121-211	LOGIC MODULE A22	32
1 2003121-181	LOGIC MODULE A21	31
1 2003121-181	LOGIC MODULE A20	30
1 2003121-171	LOGIC MODULE A19	29
1 2003121-161	LOGIC MODULE A18	28
1 2003121-151	LOGIC MODULE A17	27
1 2003121-141	LOGIC MODULE A16	26
1 2003121-131	LOGIC MODULE A15	25
1 2003121-121	LOGIC MODULE A14	24
1 2003121-111	LOGIC MODULE A13	23
1 2003121-091	LOGIC MODULE A12	22
1 2003121-081	LOGIC MODULE A11	21
1 2003121-071	LOGIC MODULE A10	20
1 2003121-061	LOGIC MODULE A9	19
1 2003121-051	LOGIC MODULE A8	18
1 2003121-041	LOGIC MODULE A7	17
1 2003121-031	LOGIC MODULE A6	16
1 2003121-021	LOGIC MODULE A5	15
1 2003121-011	LOGIC MODULE A4	14
1 2003121-001	LOGIC MODULE A3	13
1 2003121-001	LOGIC MODULE A2	12
1 2003121-001	LOGIC MODULE A1	11
1 2003140-001	HOPE DRIVER MODULE B16-17	10
1 2003027-021	STRAND SELECT MODULE B15	9
1 2003043-021	SENSE AMPLIFIER MODULE B13-14	8
1 2003111-011	CRASABLE MEMORY MODULE B12	7
1 2003026-021	CURRENT SWITCH MODULE B11	6
1 2003114-011	CRASABLE DRIVER MODULE B9-10	5
1 2003168-001	ALARM MODULE B8	4
1 2003035-021	OSCILLATOR MODULE B7	3
1 1006381-001	GASKET, RETAINED	2
1 2003059-021	INTERCONNECTION HEADER ASSEMBLY	1
1 1006378-001	GASKET, RETAINED	
1 1006379-001	GASKET, RETAINED	
1 2003053-011	TRAY B WIRED ASSEMBLY	
1 2003052-011	TRAY A WIRED ASSEMBLY	

6003001 2003001 NEW REV APPLICATION		USED ON MATERIAL DATE		MTI INSTRUMENTATION LAB COMMISSIONING CHECKED APPROVED DATE		MANNED SPACECRAFT CENTER COMPUTER ASSEMBLY 80230 J 2003200	
--	--	-----------------------------	--	---	--	---	--

F2

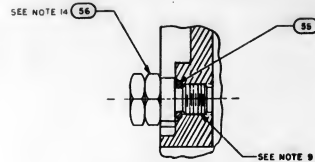
NOTES:
1. THIS DRAWING IS A REPRESENTATION OF THE EQUIPMENT AND IS NOT TO BE USED FOR CONSTRUCTION.
2. THE EQUIPMENT IS TO BE ASSEMBLED IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED.
3. THE EQUIPMENT IS TO BE MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE SCHEDULE PROVIDED.
4. THE EQUIPMENT IS TO BE OPERATED IN ACCORDANCE WITH THE OPERATING INSTRUCTIONS PROVIDED.
5. THE EQUIPMENT IS TO BE STORED IN ACCORDANCE WITH THE STORAGE INSTRUCTIONS PROVIDED.
6. THE EQUIPMENT IS TO BE TRANSPORTED IN ACCORDANCE WITH THE TRANSPORT INSTRUCTIONS PROVIDED.
7. THE EQUIPMENT IS TO BE DISPOSED OF IN ACCORDANCE WITH THE DISPOSAL INSTRUCTIONS PROVIDED.



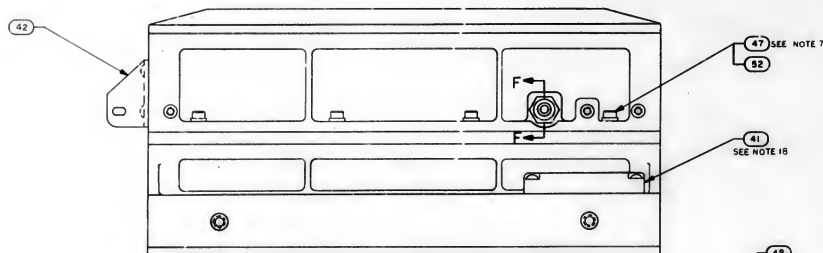
2003200

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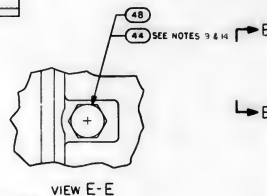
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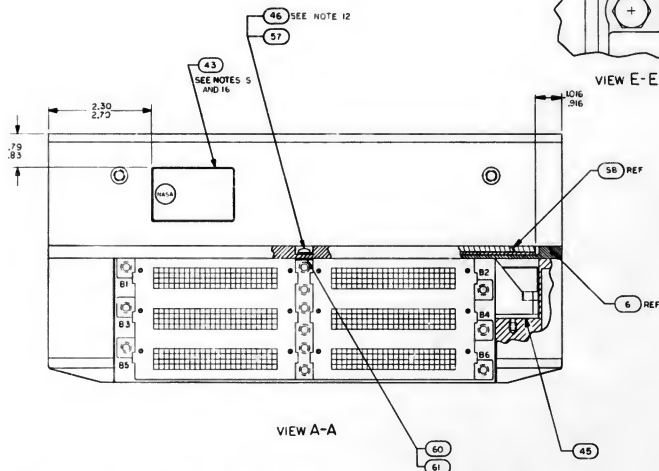
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SCALE: 2/1



VIEW B-B



VIEW E-E

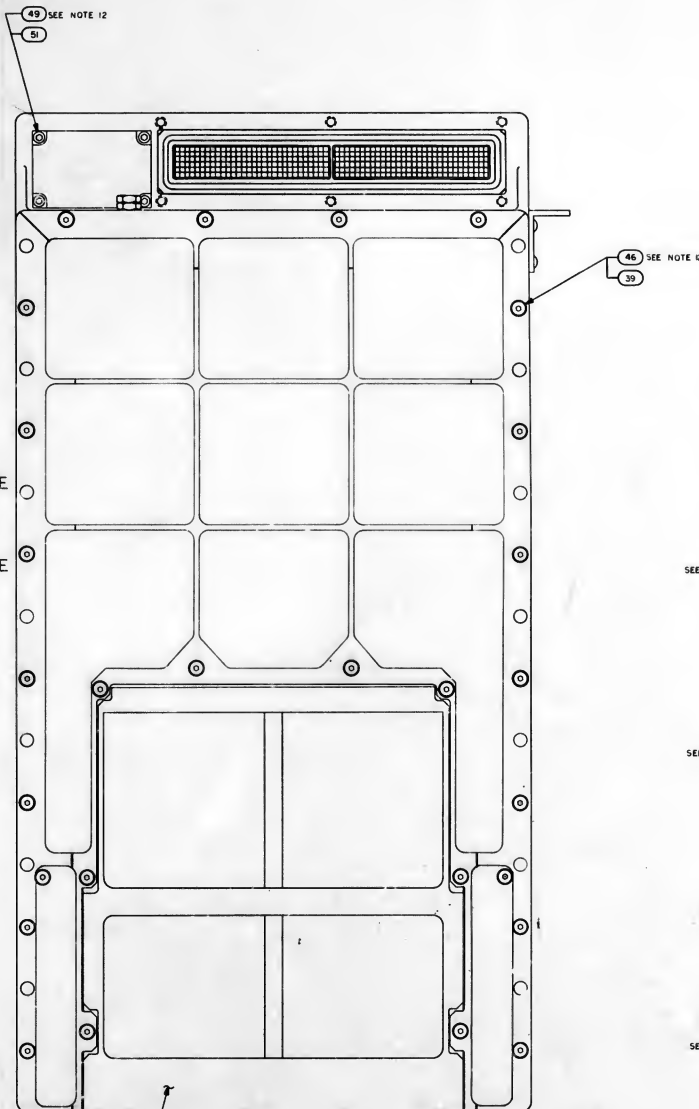


VIEW A-A

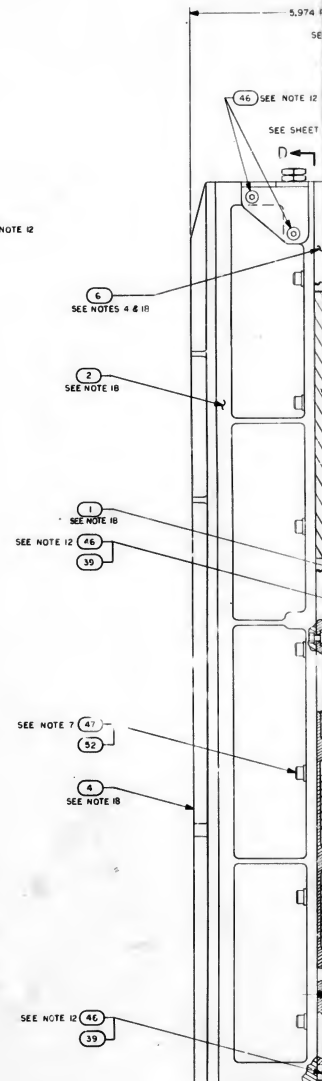
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGC COLDPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC
3. ADD SILICONE GREASE (DOD 879) TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
4. ASSEMBLE FIND NO. 33 AND FIND NO. 43 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 1
5. BOND FIND NO. 43 TO FIND NO. 1 PER DOD 2004 TYPE 2Z
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS
7. TORQUE FIND NO. 47 TO 28/32 INCH POUNDS
8. FINISH IS REQUIRED TO SATISFY ICQ GAC 510-10001
9. SUPPLY SEALING COMPOUND MIL-S-22473 GRADE A TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF 2003101 OR 6003001
11. TORQUE FOR FIND NO. 36 MOUNTING SCREWS TO BE 4/6 INCH POUNDS
12. TORQUE FOR FIND NO. 46, 48 AND 50 TO BE 18/22 INCH POUNDS
13. TORQUE FOR FIND NO. 53 TO BE 4/6 INCH POUNDS
14. TORQUE FOR FIND NO. 44 AND FIND NO. 56 TO BE 137/157 INCH POUNDS
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. MARK COMPUTER ASSEMBLY AND RELATED PART NO., APPLICABLE DASH NO., SERIAL NO. AND CONTRACT NO. PER 1004260 AND SERIALIZE PER NO. 1002023
17. FINISH SURFACE (ELECT) PER ICQ NAA MHOI-0302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICQ NAA MHOI-0302-116
18. FIND NO. 1 THRU 6 AND FIND NO. 41 TO BE ELECTRICALLY BONDED, RESISTANCE BETWEEN ANY TWO ITEMS TO BE LESS THAN 10 MILLI OHMS
19. LEAK TEST: PURGE AND FILL WITH 302.10 PSIA DRY NITROGEN, STORE AT ROOM AMBIENT FOR 24.5 HOURS, TEST PRESSURE FOR 24.5 HOURS, ALL MEASUREMENTS MAKE AT STANDO TEMPERATURE 72°C TEST SHALL BE PREFORMED WITH 200400 INSTALLED, FOLLOWING TEST BLEED TO 17 ± 1.0 PSIA

20. BOND FIND NO. 58 TO FIND NO. 6 IN POSITION SHOWN, USING 1006338



1-A-1
SEE NOTE 17

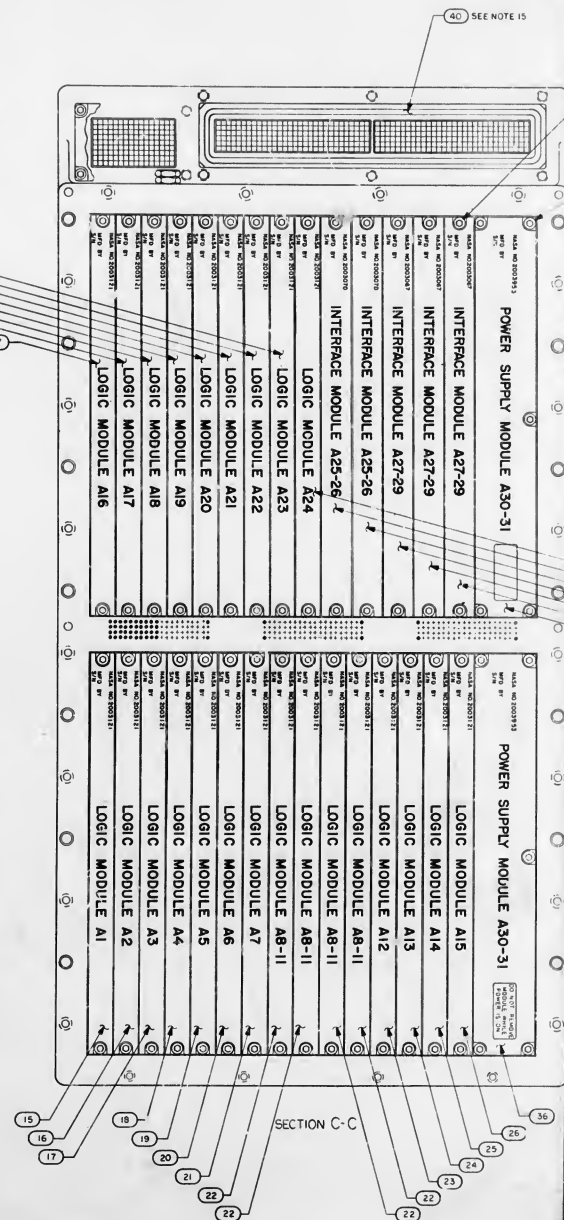
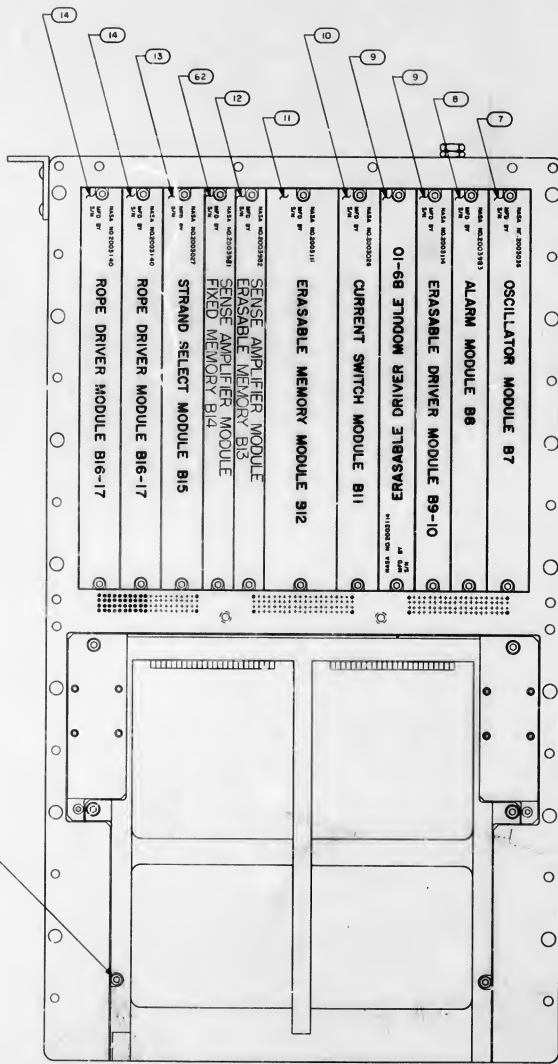


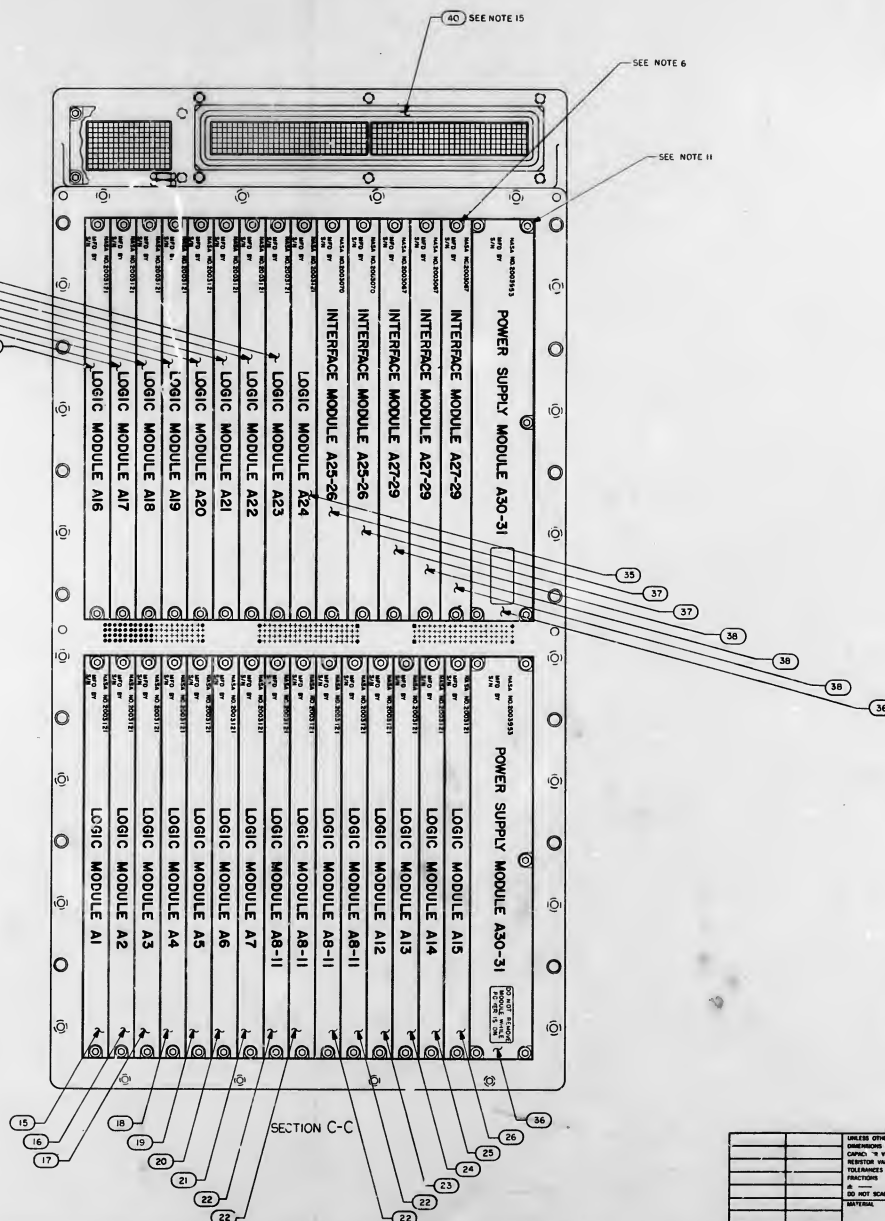


2003200	A
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A

THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE REPRODUCED IN WHOLE OR IN PART BY ANY PERSON OR ORGANIZATION WITHOUT PERMISSION OF THE U.S. GOVERNMENT. IT IS TO BE USED FOR OFFICIAL GOVERNMENT PURPOSES ONLY AND IS NOT TO BE DISTRIBUTED TO THE PUBLIC. IT IS TO BE KEPT IN A SAFE PLACE AND NOT TO BE LOANED, REPRODUCED, COPIED, OR IN ANY MANNER DISCLOSED TO ANY OTHER PERSON OR ORGANIZATION. IT IS TO BE RETURNED TO THE U.S. GOVERNMENT WHEN NO LONGER NEEDED.





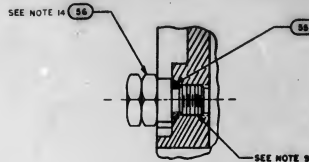
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		MANAGED SPACECRAFT CENTER			
		HOUSTON, TEXAS			
		COMPUTER ASSEMBLY			
		APPROVED: <i>[Signature]</i>			
		DATE: 10/1/77			
		CODE: 80230 J			
		SIZE: 2003200			
		SCALE: 1/1			
		SHEET: 2 OF 2			

2003200

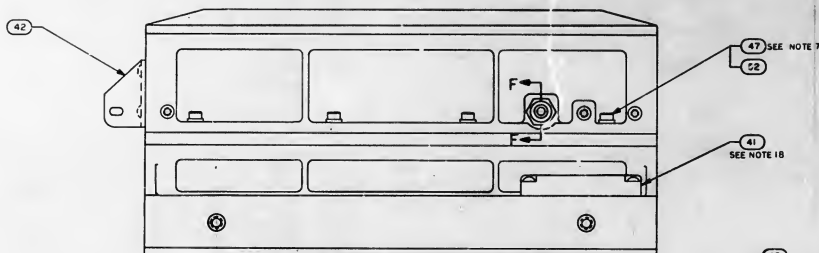
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2003200

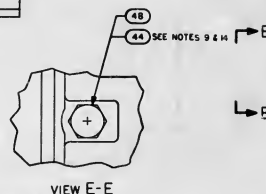
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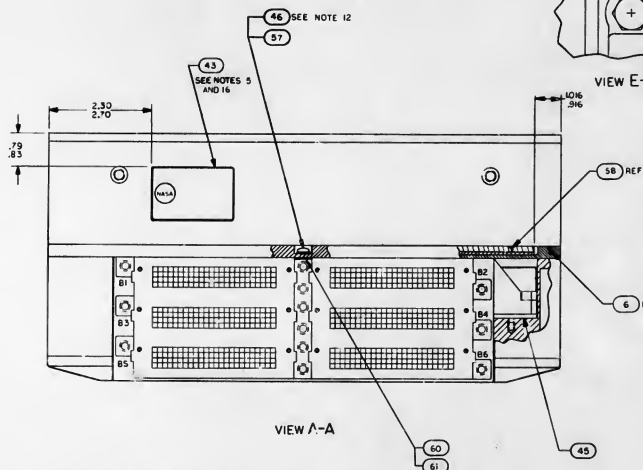
PARTIAL SECTION F F
SCALE: 2:1



VIEW B-B



VIEW E-E

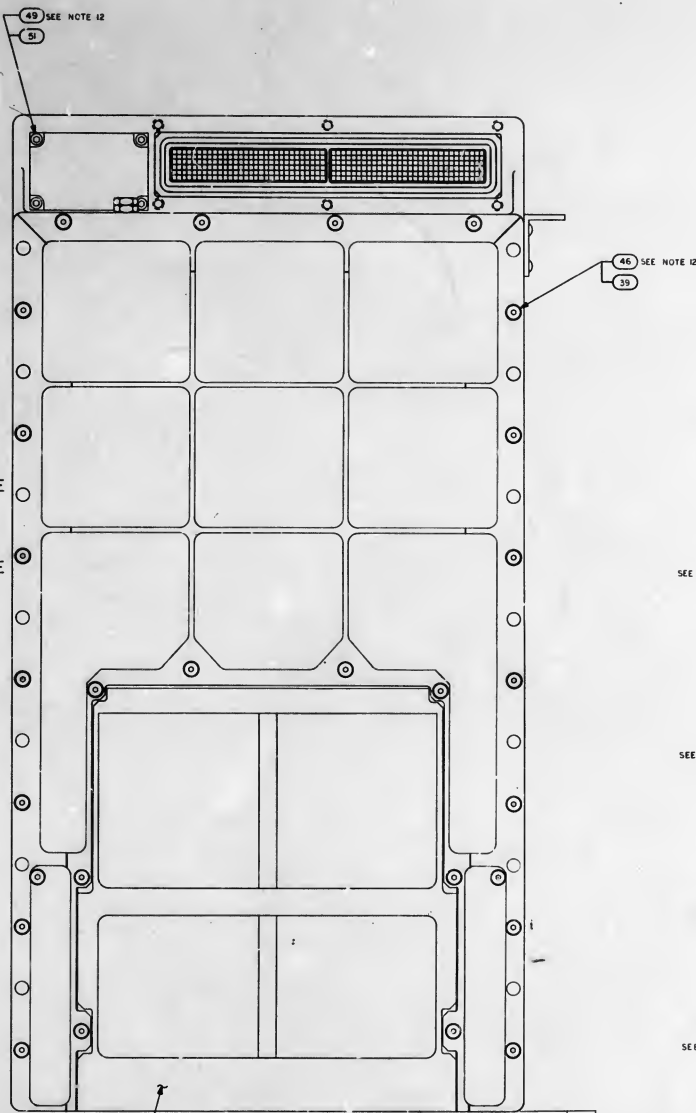


VIEW A-A

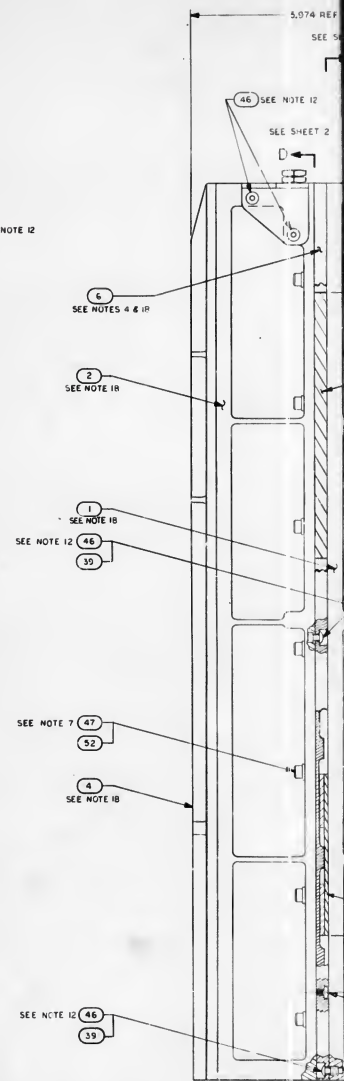
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-C-70327
2. PHANTOM LINES DENOTE AGG. COOLPATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN SURVIVAL
EVIDENCE DIVISION, GREAT FALLS, MONTANA.
3. ASSEMBLY FIND NO.53 AND FIND NO.63 TO FIND NO.6 AND FIND NO.6 TO FIND NO.2 TO ASSEMBLY OF FIND NO.2 TO FIND NO.1
4. 8.90ND FIND NO.43 TO FIND NO.1 PER NOD000004 TYPE 2
5. FIND NO.1 FIFTEEN TORQUE 1/2 MODULUM TENSURE SCREWS 15/19 INCH POUNDS
7. TORQUE FIND NO.47 TO 20/32 INCH POUNDS
8. FIND NO.1 REQUIRED TO SATISFY ICD AECI 510-10001
9. APPLY SEALING COMPOUND MIL-S-22473 GRADE A TO FIND NO.53, FIND NO.56 AND FIND NO.44
10. COMPLETELY ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2016005
11. TORQUE FOR FIND NO.36 MOUNTING SCREW 1/2 INCH POUNDS
12. TORQUE FOR FIND NO.46,49 AND 50 TO BE 18/22 INCH POUNDS
13. TORQUE FOR FIND NO.53 TO BE 4/6 INCH POUNDS
14. TORQUE FOR FIND NO.44 AND FIND NO.58 TO BE 137/157 INCH POUNDS
15. FIND NO.40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. CONTRACTOR AFTER ASSEMBLY SHALL SUBMIT TO THE COMMANDER, SIGNAL NO.6 AND CONTRACTORS PERIODOSASO AND SERIALIZE PER NO.1002033
17. FINISH SURFACE [X-X] PER ICD NAA 0100-01302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING
- ELECTRICAL BONDING REQUIREMENTS OF ICD NAA 0100-01302-116
18. FIND NO.1 AND FIND NO.53 ARE DESIGNATED AS CRITICAL BETWEEN ANY TWO ITEMS TO BE LESS THAN JOINTILLI OMS
19. LEAK TEST: PURGE AND FILL WITH 30.0 PSI DRY NITROGEN, STORE AT ROOM AMBIENT FOR 24 HOURS. TEST PRESSURE
30.0 PSI. 0.5 PSI MINIMUM AT STABILIZED TEMPERATURE 27C. TEST SHALL BE PERFORMED WITH 200X400
20. INSTALLED, FOLLOWING TEST BLEED TO 1/2 PSI LO PSI

20. BOND FNO NO.58 TO FNO NO.6
IN POSITION SHOWN, USING 100G336
21. REFERENCED MODULES MUST NOT
BE REPLACED OR INTERCHANGED
WITHOUT REPEATING NOMINAL
SELECTION PROCEDURE PER NOTE 10.
22. THE VALVE OF CI TO BE DETERMINED AT ELECTRICAL
TEST AND SELECTED FROM APPROPRIATE CHART.
23. WHEN THE VALUE OF CI IS "0" NO COMPONENT SHALL
BE USED.
24. ENCAPSULATE AREA SHOWN AFTER SELECTION AND
INDENTATION OF CI USING NO.002009 METHOD C OR D
USING PRIMER PM100 SC010213.
25. WELD PER NO.002005.

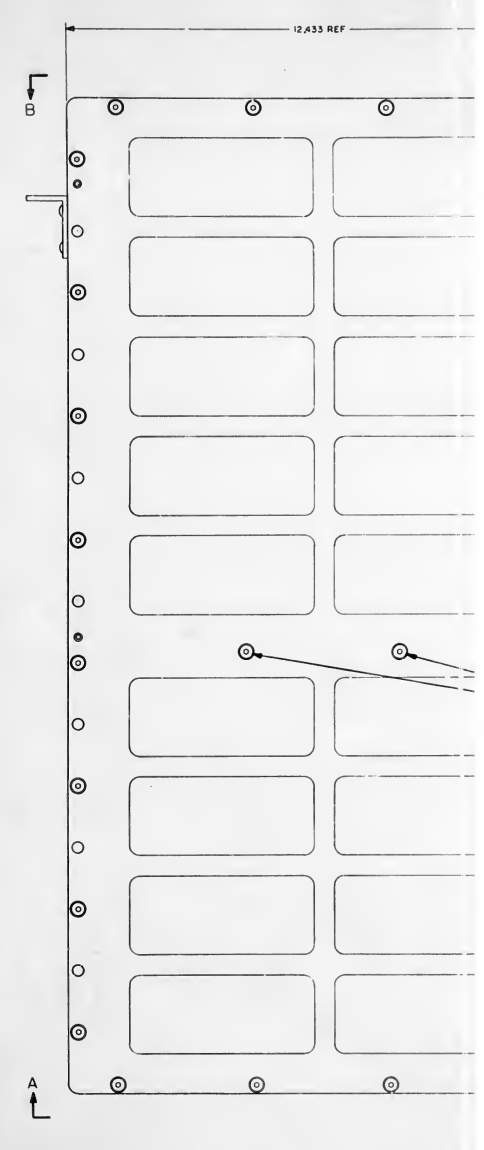
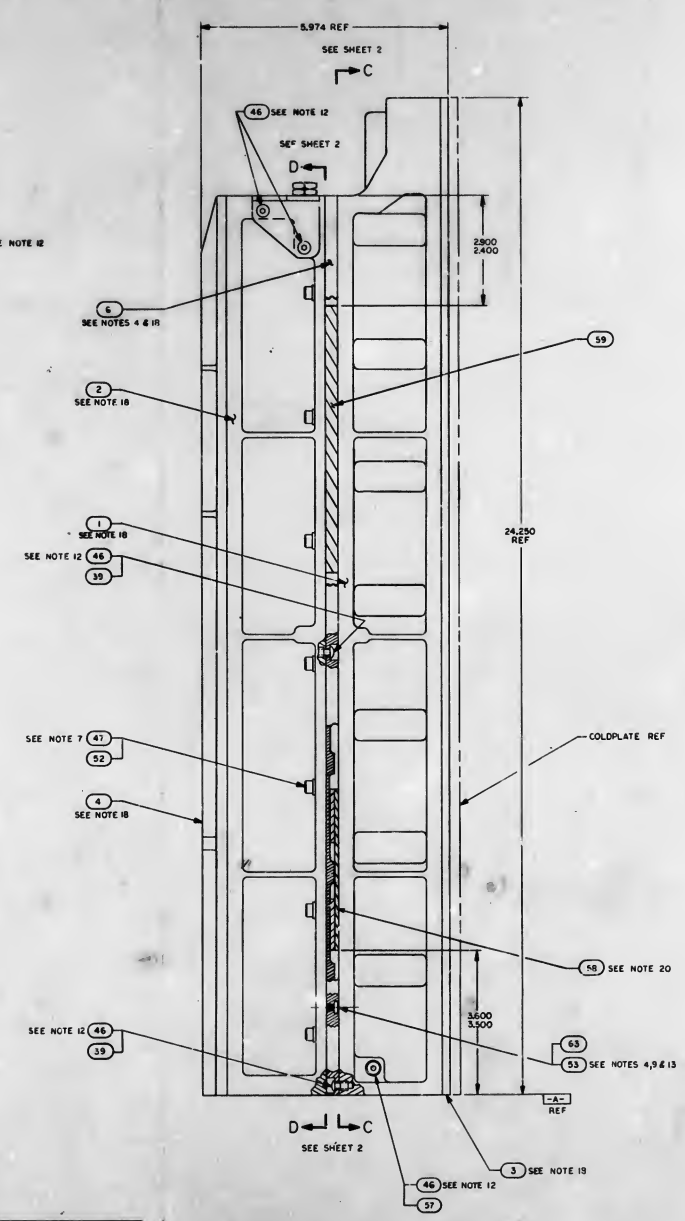
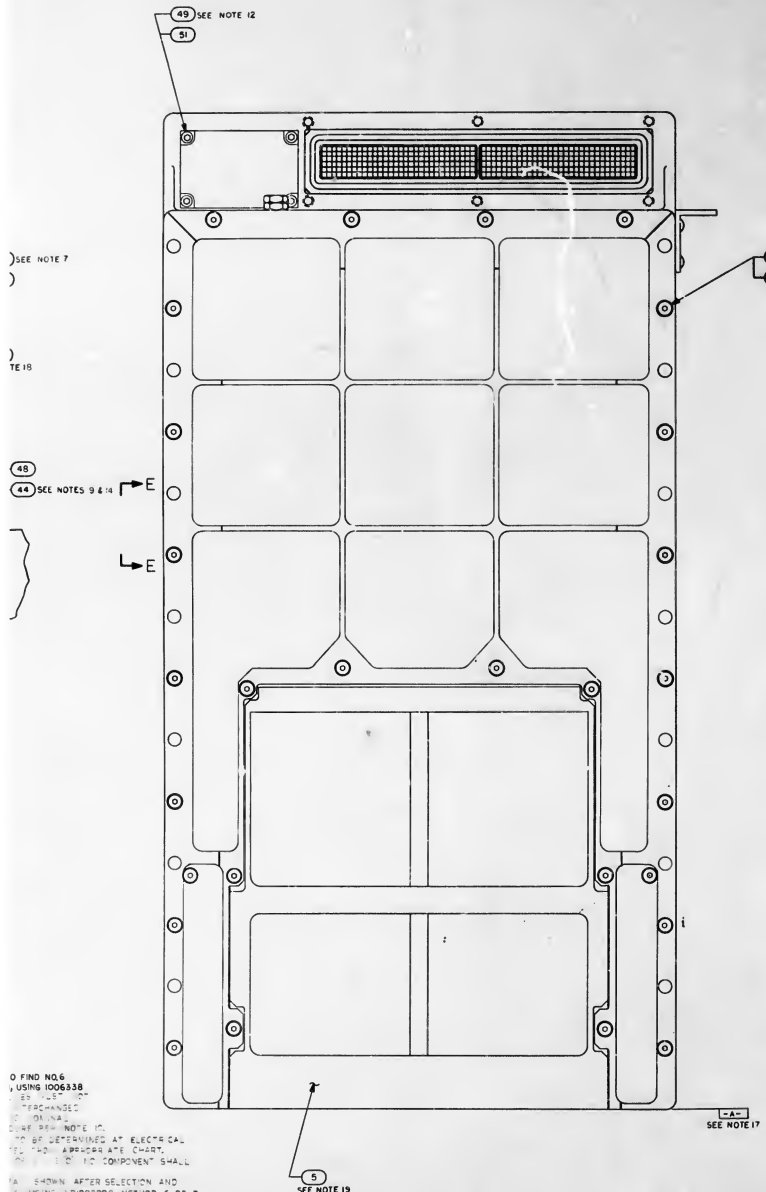


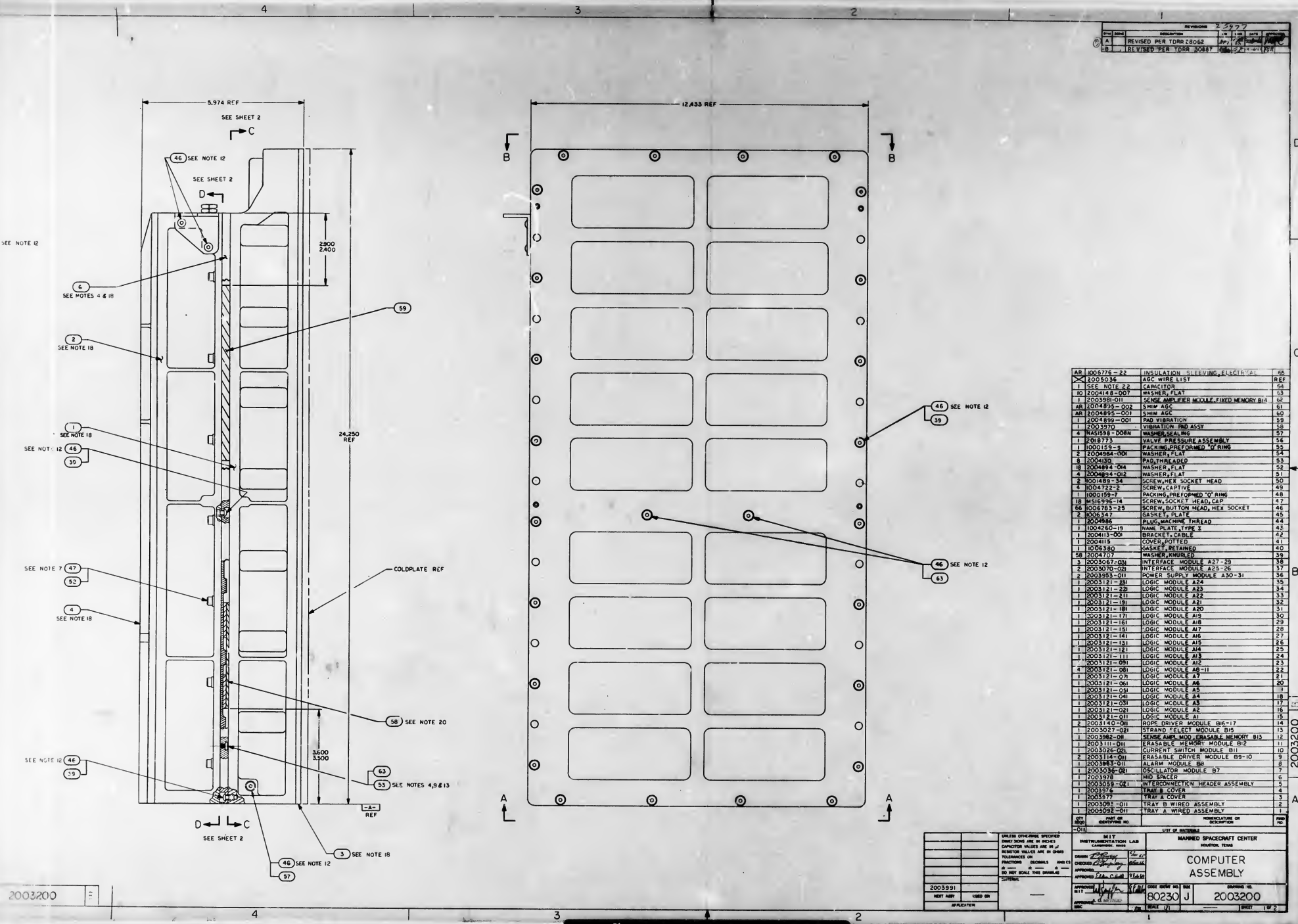
- A -
SEE NOTE 17



SEE SHEET

FIND NO. 6
 USING 1006338
 PERMANENT
 OR NA
 CURF B/W NOTE 10.
 TO BE DETERMINED AT ELECTRICAL
 TO "AD" APPROPRIATE CHART
 OF "AD" COMPONENT SHALL
 FA - SHOWN AFTER SELECTION AND
 USING 10022000 METHOD C OR D
 10022000 METHOD C OR D
 10022000 METHOD C OR D



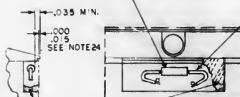


AR 1005775-22	INSULATION SLEEVE, ELECTRICAL	60
2005036	ASC WIRE LIST	51
1	SEE NOTE 22	51
10 2004148-007	WASHER, FLAT	53
1 2003981-011	SENSE AMPLIFIER MODULE, FIXED MEMORY B14	62
AR 2004893-002	SHIM, AGC	61
AR 2004895-001	SHIM, AGC	60
1 2004899-001	PAD, VIBRATION	59
1 2003970	VIBRATION PAD ASSY	58
4	WASHER, DOWN	57
1 2001773	VALVE, PRESSURE ASSEMBLY	56
1 1000159-5	PACKING, PREFORMED O-RING	55
2 2004994-00N	WASHER, FLAT	54
8 2004130	PAD, THREADED	53
18 2004894-014	WASHER, FLAT	52
4 2004894-012	WASHER, FLAT	51
2 2004893-34	SCREW, SOCKET HEAD	50
4 1004722-2	SCREW, CAPTIVE	49
1 1000159-7	PACKING, PREFORMED O-RING	48
18 1001694-14	SCREW, SOCKET HEAD, CAP	47
66 1006763-25	SCREW, BUTT HEAD, HEX SOCKET	46
2 2006347	GASKET, PLATE	45
1 2004986	PLUG, MACHINE THREAD	44
1 1004260-19	NAME PLATE, TYPE X	43
1 2004115-00	BRACKET, CABLE	42
1 2004115	COVER, POTTED	41
1 1006380	GASKET, RETAINED	40
18 2004707	WASHER, ROUNDED	39
3 2003067-031	INTERFACE MODULE A27-28	38
2 2003070-021	INTERFACE MODULE A29-30	37
2 2003063-011	POWER SUPPLY MODULE A30-31	36
1 2003121-231	LOGIC MODULE A24	35
1 2003121-228	LOGIC MODULE A25	34
1 2003121-211	LOGIC MODULE A22	33
1 2003121-191	LOGIC MODULE A21	32
1 2003121-181	LOGIC MODULE A20	31
1 2003121-171	LOGIC MODULE A19	30
1 2003121-161	LOGIC MODULE A18	29
1 2003121-151	LOGIC MODULE A17	28
1 2003121-141	LOGIC MODULE A16	27
1 2003121-131	LOGIC MODULE A15	26
1 2003121-121	LOGIC MODULE A14	25
1 2003121-111	LOGIC MODULE A13	24
1 2003121-091	LOGIC MODULE A12	23
4 2003121-081	LOGIC MODULE A11	22
1 2003121-071	LOGIC MODULE A7	21
1 2003121-061	LOGIC MODULE A6	20
1 2003121-051	LOGIC MODULE A5	19
1 2003121-041	LOGIC MODULE A4	18
1 2003121-031	LOGIC MODULE A3	17
1 2003121-021	LOGIC MODULE A2	16
1 2003121-011	LOGIC MODULE A1	15
1 2001400-001	ROPE DRIVER MODULE B16-17	14
1 2003027-021	STRAND SELECT MODULE B15	13
1 2003982-001	SENSE AMPL. MOD. FRASABAL MEMORY B13	12
1 2001111-011	FRASABAL MEMORY MODULE B12	11
1 2003026-021	CURRENT SWITCH MODULE B11	10
2 2003114-011	FRASABAL DRIVER MODULE B9-10	9
1 2003983-011	ALARM MODULE B8	8
1 2003036-001	OSCILLATOR MODULE B7	7
1 2003978	WID EXCELS	6
1 2003059-041	INTERCONNECTION HEADER ASSEMBLY	5
1 2003976	TRAY B COVER	4
1 2003977	TRAY A COVER	3
1 2003093-011	TRAY B WIRED ASSEMBLY	2
1 2003092-011	TRAY A WIRED ASSEMBLY	1

MIT INSTRUMENTATION LAB		NAVY SPACECRAFT CENTER	
COMPUTER ASSEMBLY		NAVY SPACECRAFT CENTER	
DATE: 10/1/77	BY: W. J. [Signature]	DATE: 10/1/77	BY: W. J. [Signature]
CHKD: [Signature]	APPV: [Signature]	CHKD: [Signature]	APPV: [Signature]
2003991	80230 J	2003200	80230 J
1	1	1	1

CI		
PART NO.	VALUE	UNIT
1006777-1	10	
-15	150	
-16	330	
-20	470	
-22	680	
-23	820	
SEE NOTE 23	0	

CI 64
SEE NOTES 21, 22, 23
A25



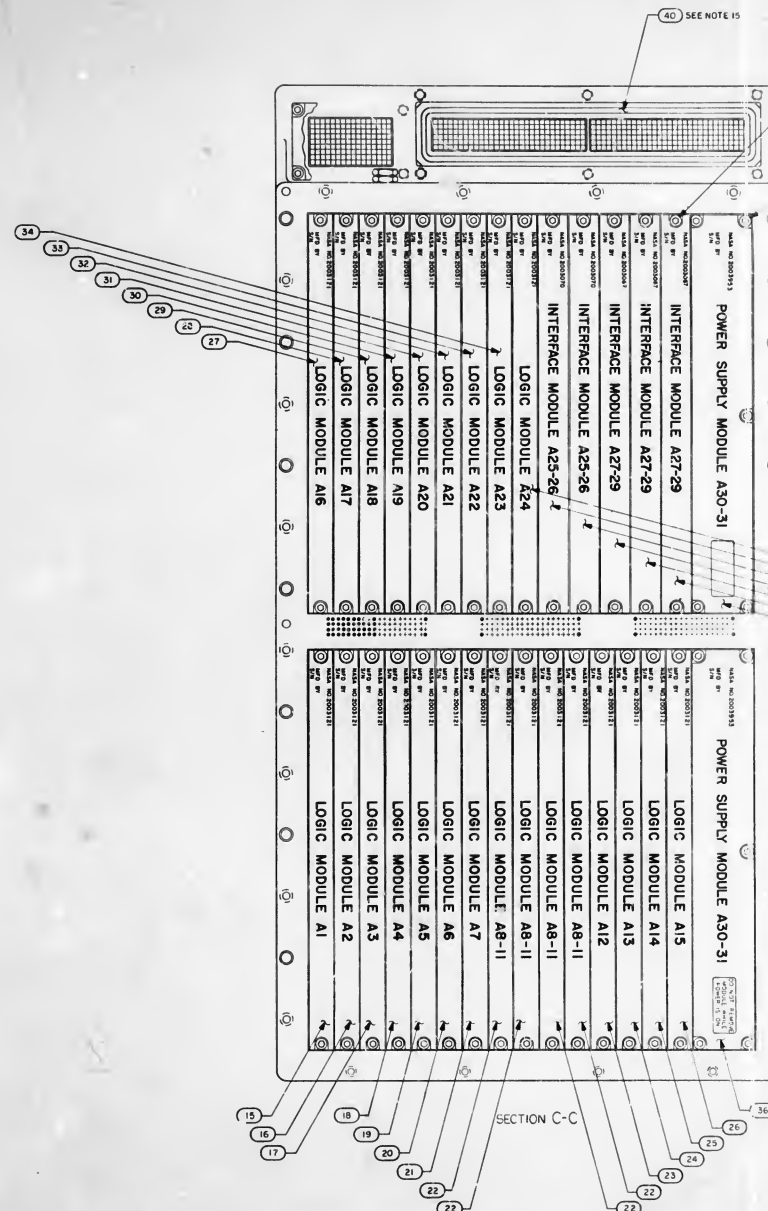
SEE NOTE 24

SEE NOTE 12
50
54

SECTION D-D

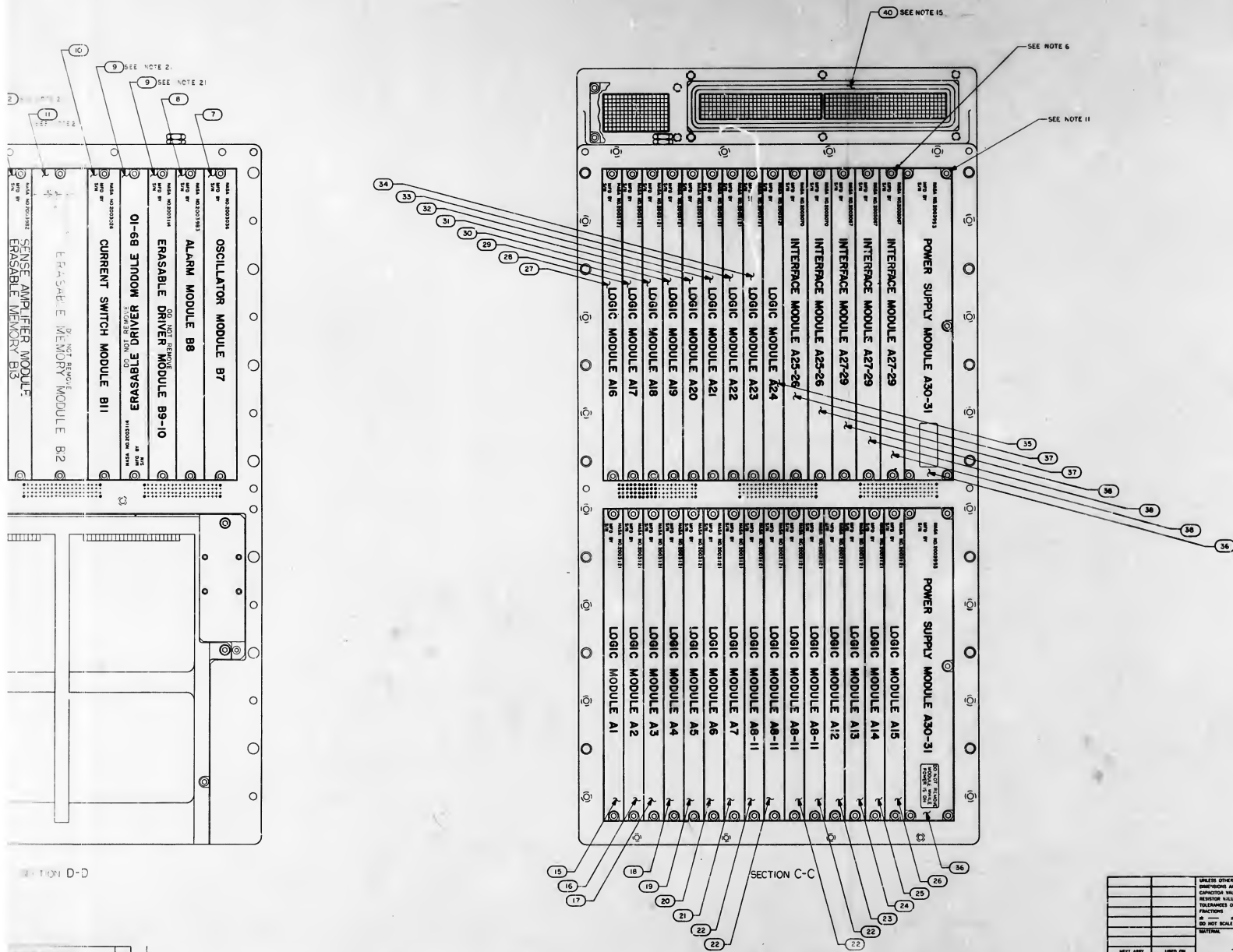
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B

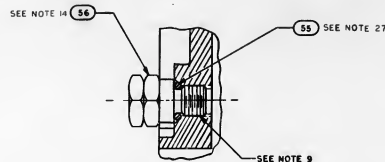


SECTION C-C

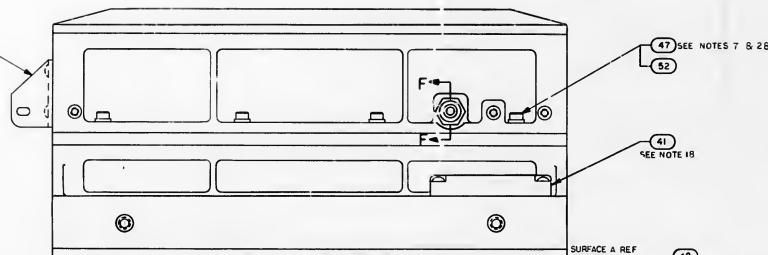
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NO.	DATE	BY	CHKD	DATE	REVISION
1	10/1/67	WJ	WJ	10/1/67	REVISED PER YARR 20062
2	10/1/67	WJ	WJ	10/1/67	REVISED PER YARR 30067



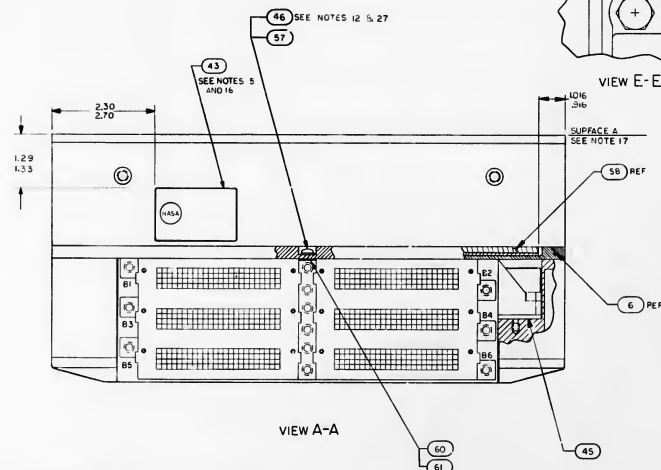
REV. NO.		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIG. NO.
LIST OF MATERIALS						
MATERIAL				MANUFACTURING CENTER		
MATERIAL				COMPUTER ASSEMBLY		
MATERIAL				DRAWING NO.		
MATERIAL				80230 J 2003200		
MATERIAL				SCALE 1/1		
MATERIAL				SHEET 2 OF 2		



PARTIAL SECTION F F
SCALE: 2/1



VIEW B-B



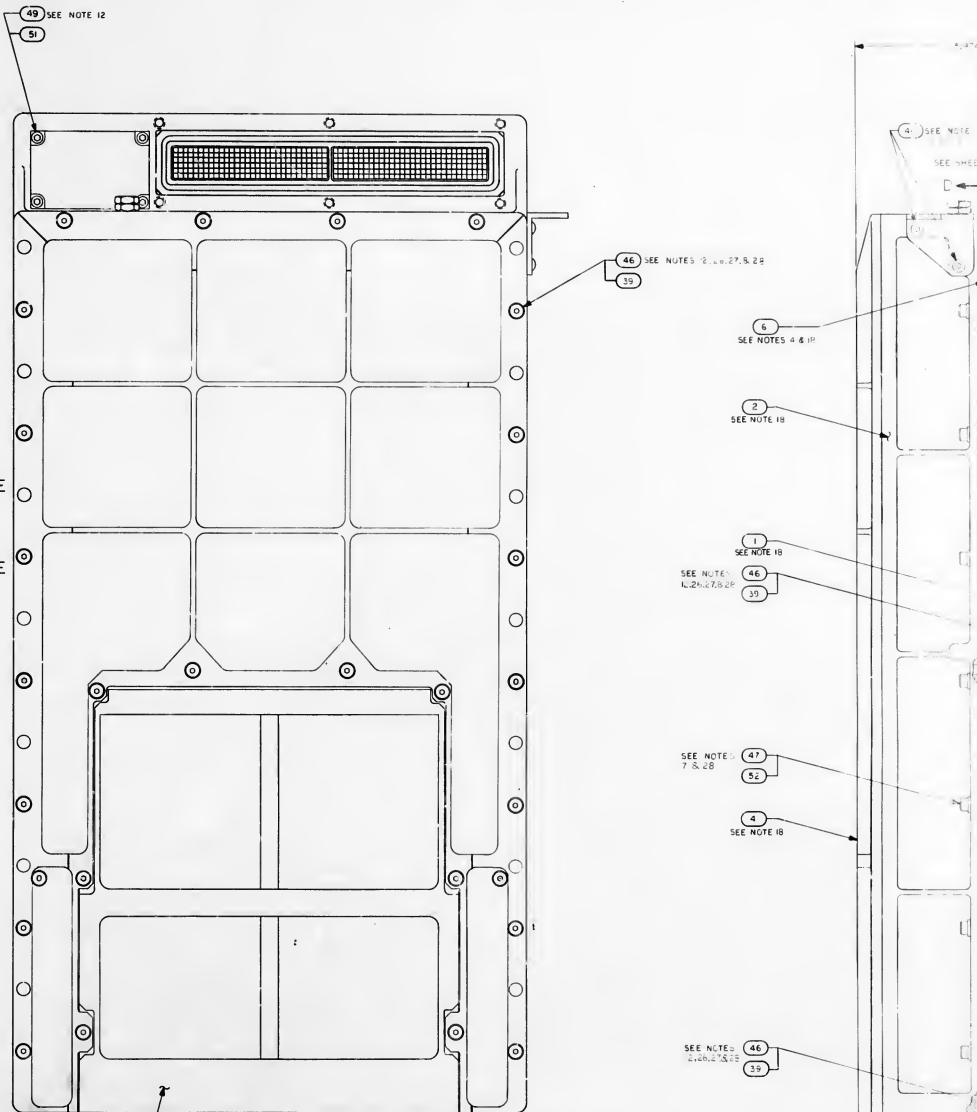
VIEW A-A

NOTES:

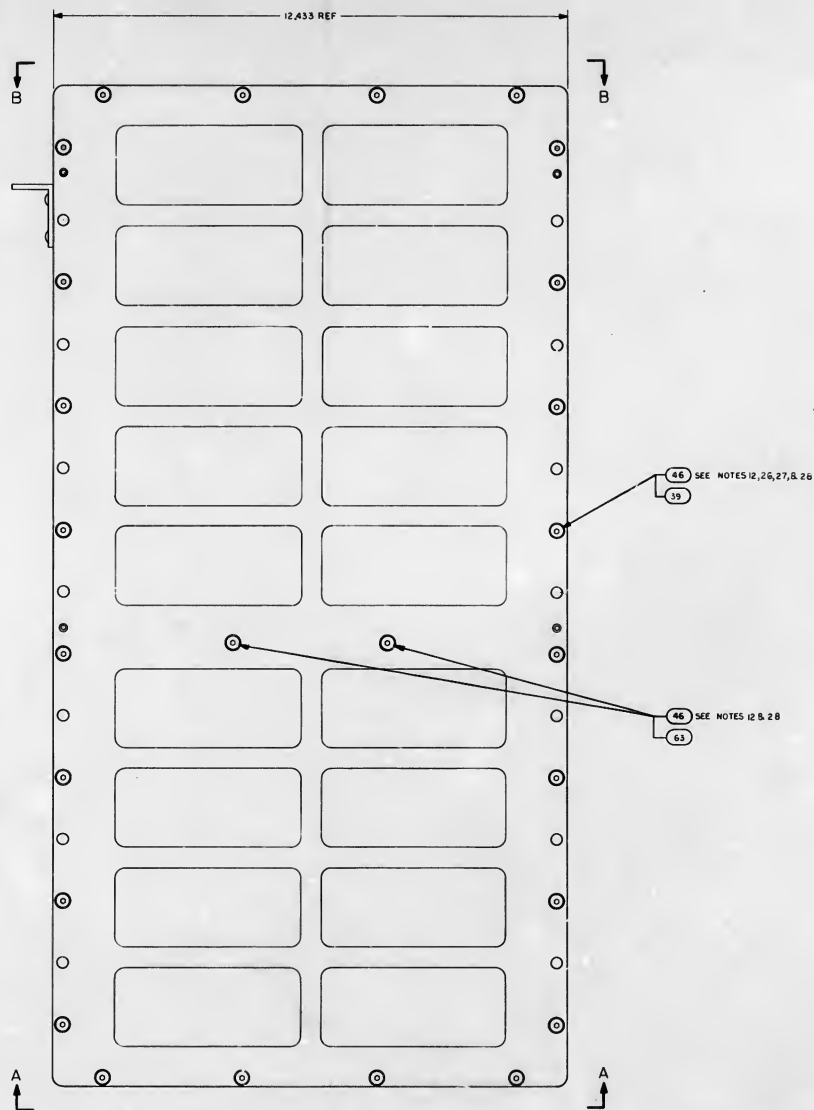
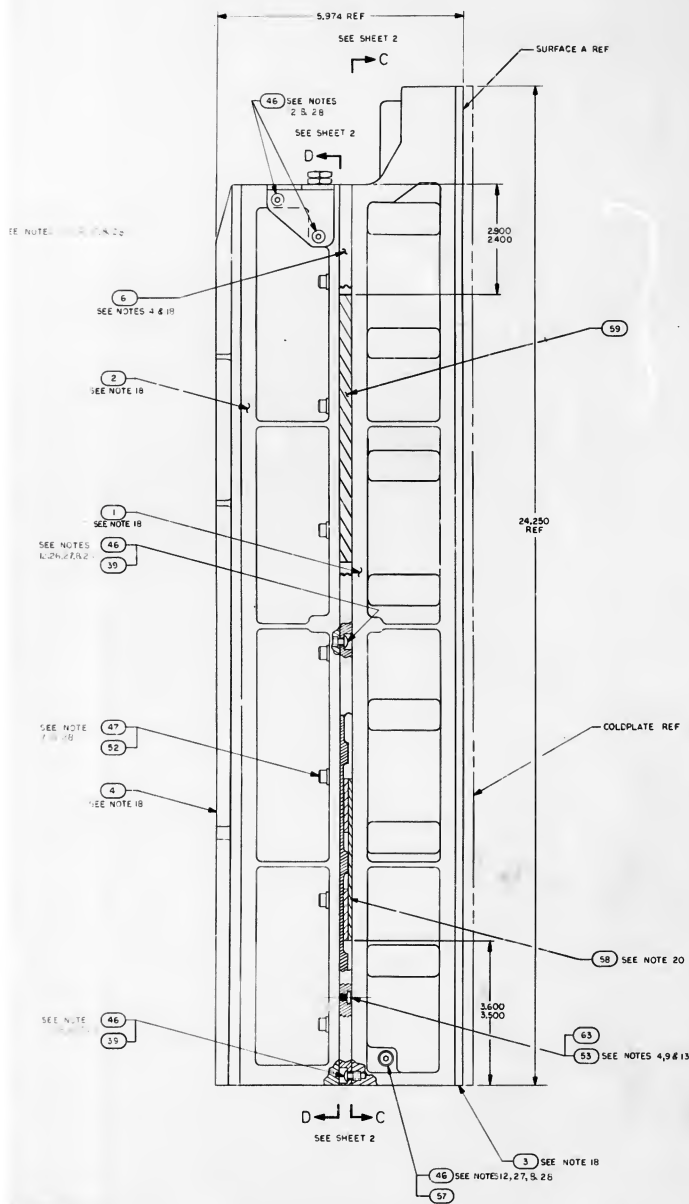
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE ASS. COLDPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. ADD SILICONE GREASE 1006B79 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
4. ASSEMBLE FIND NO. 55 AND FIND NO. 63 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 1
5. BOND FIND NO. 43 TO FIND NO. 1 PER ND1002004 TYPE 3X
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS
7. TORQUE FIND NO. 47 TO 26/32 INCH POUNDS
8. FINISH IS REQUIRED TO SATISFY ICD GAC 510-10001
9. APPLY SEALING COMPOUND MIL-S-22473 GRADE A TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2010C005
11. TORQUE FOR FIND NO. 56 MOUNTING SCREWS TO BE 4/6 INCH POUNDS
12. TORQUE FOR FIND NO. 46, 48 AND 50 TO BE 16/22 INCH POUNDS
13. TORQUE FOR FIND NO. 53 TO BE 4/6 INCH POUNDS
14. TORQUE FOR FIND NO. 44 AND FIND NO. 56 TO BE 137/157 INCH POUNDS
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. MARK COMPUTER ASSEMBLY AND RELATED PART NO., APPLICABLE DASH NO., SERIAL NO. AND CONTRACT NO. PER 1004250 AND SERIALIZE PER ND1002003
17. FINISH SURFACE (SEE 1) PER ICD NAA MH01-01302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICD NAA MH01-01302-116
18. FIND NO. 1 THRU 6 AND FIND NO. 41 TO BE ELECTRICALLY BONDED, RESISTANCE BETWEEN ANY TWO ITEMS TO BE LESS THAN 10 MILLI OHMS
19. LEAK TEST: PURGE AND FILL WITH 302.10 PSIA DRY NITROGEN, STONE AT ROOM AMBIENT FOR 24 HOURS, TEST PRESSURE FOR $\Delta P < 0.5$ PSIA. ALL MEASUREMENTS MAX AT STANDARD TEMPERATURE 22°C , FOLLOWING TEST BLEED TO 17 ± 1.0 PSIA

20. BOND FIND NO. 58 TO FIND NO. 6 IN POSITION SHOWN, USING 1006338
21. REFERENCED MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10
22. THE VALVE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART
23. WHEN THE VALUE OF C1 IS "0" NO COMPONENT SHALL BE USED
24. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF C1 USING ND1002009 METHOD C OR D USING PRIMER PER SC0 1012313
25. WELD PER ND1002003
26. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD
27. FIND NO. 39, 48, 55 & 57 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED

28. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FIND NO. 46. OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED.



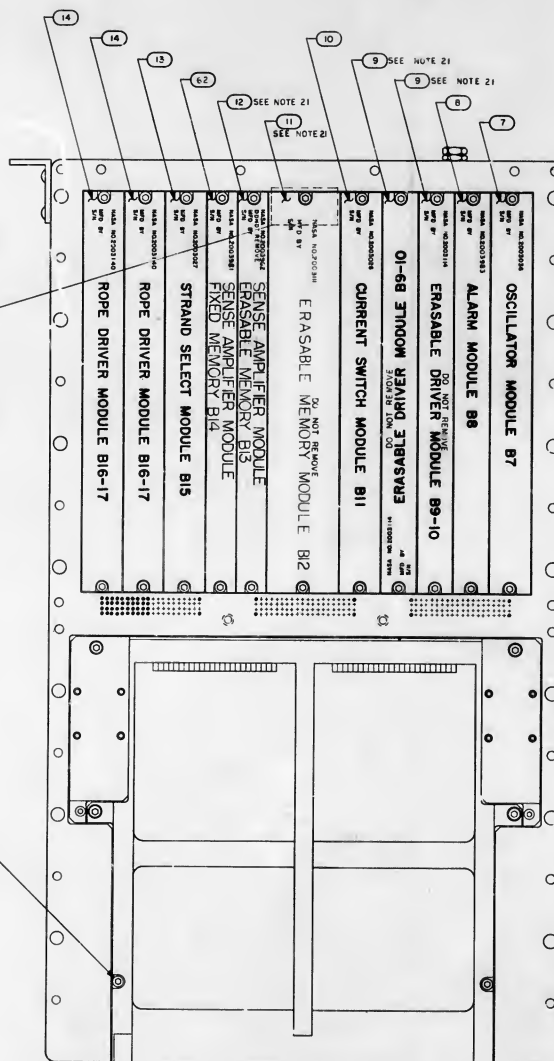
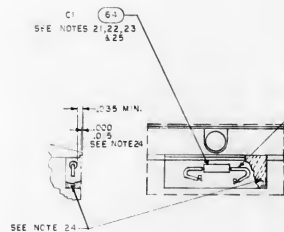
REVISIONS 25977						
BY	DATE	DESCRIPTION	BY	DATE	DATE	REVISION
A		REVISED PER TORR 28062	10/1/87	10/1/87	10/1/87	1
B		REVISED PER TORR 30827	10/1/87	10/1/87	10/1/87	2
C		REVISED PER TORR 30890	10/1/87	10/1/87	10/1/87	3



SEE NOTE 28	AR	1006338R-000	SEALING COMPUND, ALUMINE RING	6.6
	AR	1005776-22	INSULATION, 5/8 IN, ELECTRIC	6.6
		200503A	AGC WIRE LIST	REF
	SEE NOTE 22	10	CARGO TIE	1
		10	WASHER, FLAT	1
		2004950-01	SCREW, SELF-DRILLING, FLAT HEAD	1
		2004985-002	SCREW, SELF-DRILLING, FLAT HEAD	1
	AR	2004985-001	SHIM, AGR	6.1
		2004989-001	WAX, VIBRATION	6.1
		2004990	VIBRATION PAD ASSY	1
		4	WASHER, SEALING	57
		2001773	WASHER, FLAT	57
		1005155-8	PACKING, PERFORMED 'O' RING	55
		2	WASHER, FLAT	55
		2004984-001	PAINT, PRELAD	55
		2004984-002	WASHER, FLAT	55
		10	WASHER, FLAT	52
		2004894-014	WASHER, FLAT	52
		2004894-012	WASHER, FLAT	50
		10	SCREW, SCKET HEAD	50
		2004722-2	SCREW, CAPTIVE	43
		1005159-7	PACKING, PERFORMED 'O' RING	43
		10	SCREW, SCKET HEAD	47
		10	SCREW, BUTTIN HEAD, HEX SCKET	47
	66	1006763-25	SCREW, BUTTIN HEAD, HEX SCKET	44
		2006347	SCREW, BUTTIN HEAD, HEX SCKET	44
		2004986	PLUG, MACHIN, THREA	44
		1004260-19	NAME PLATE, TYPE 2	43
		2004113-09	COVER, PTTED	41
		2004185	COVER, PTTED	41
		1006680	GASKET, KIT, TAILING	39
		2005677	INTERFACE MODULE A27-29	38
		3	INTERFACE MODULE A27-29	37
		2	INTERFACE MODULE A27-29	37
		2005955-01	POWER SUPPLY MODULE A30 31	36
		2005121-21	LOGIC MODULE A24	35
		2005121-21	LOGIC MODULE A24	35
		2005121-21	LOGIC MODULE A24	33
		2005121-21	LOGIC MODULE A22	33
		2005121-21	LOGIC MODULE A22	33
		2005121-17	LOGIC MODULE A19	30
		2005121-16	LOGIC MODULE A19	29
		2005121-15	LOGIC MODULE A17	29
		2005121-14	LOGIC MODULE A16	27
		2005121-13	LOGIC MODULE A15	26
		2005121-12	LOGIC MODULE A14	25
		2005121-11	LOGIC MODULE A13	24
		2005121-10	LOGIC MODULE A12	23
		4	LOGIC MODULE AB-II	22
		2005121-08	LOGIC MODULE A7	21
		2005121-07	LOGIC MODULE A7	21
		2005121-06	LOGIC MODULE A7	20
		2005121-05	LOGIC MODULE A5	19
		2005121-04	LOGIC MODULE A4	18
		2005121-03	LOGIC MODULE A2	16
		2005121-01	LOGIC MODULE A2	15
		2	ROPE "C" VIB MODUL #16-17	14
		2005027-02	STRAP, SELECT, MODULE B15	13
		2005984-002	SEALING COMPUND, ALUMINE RING	13
		2005111-01	ERASABLE MEMORY MODULE B12	11
		2005026-02	CURRENT SWITCH MODULE B11	10
		2005111-01	ERASABLE MEMORY MODULE B9-B10	9
		2005985-01	ALARM MODULE B8	8
		1	OSCILLATOR MODULE B7	7
		2005979	WAX, VIBRATION	6
		2005059-02	INTERCONNECTION HEADER ASSEMBLY	5
		2005977	TRAM A COVER	4
		2005095-01	TRAY B WIRED ASSEMBLY	2
		2005095-02	TRAY B WIRED ASSEMBLY	2

[illegible]

CI		
PART NO.	VALUE	UNIT
1066777-1	10	
-15	150	
-18	330	
-20	470	
-22	680	
-23	820	
SFE NOTE 23	0	

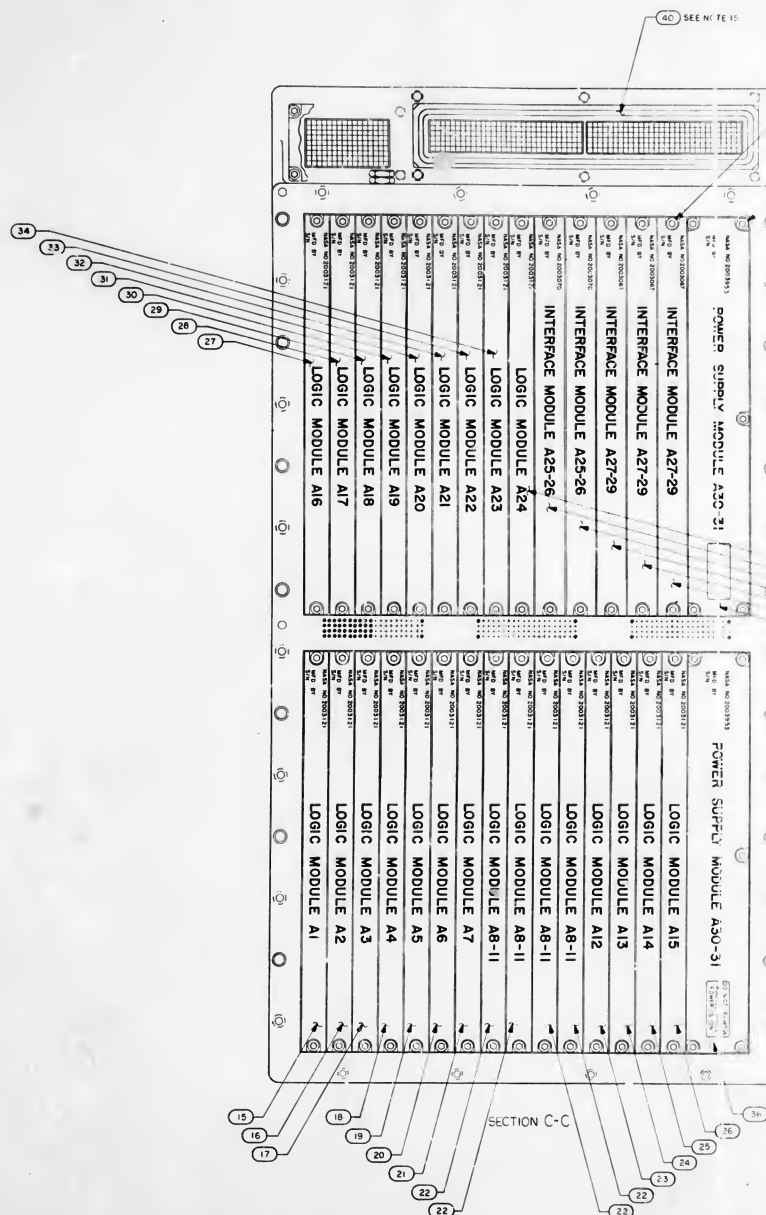


SECTION D-D

PACKAGING REFERENCE DRAWINGS:
1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

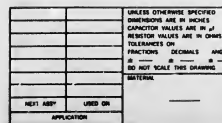
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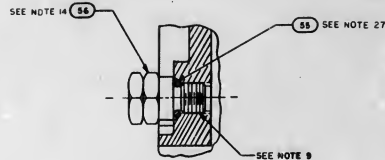
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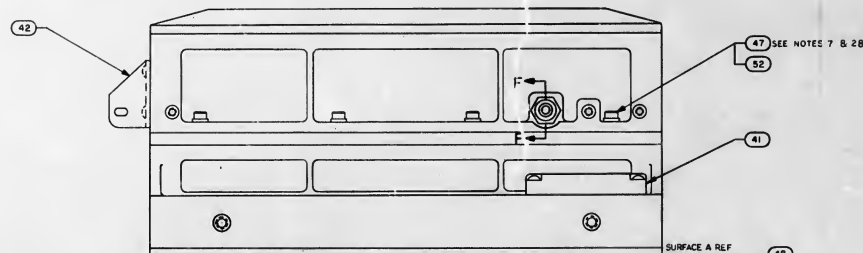
SECTION C-C

QTY	PART OR IDENTIFYING NO	NONE/SCHEMATIC OR DESCRIPTION	FILE NO
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>L. J. Blum</i> CHECKED <i>L. J. Blum</i> APPROVED <i>Edman C. Harkins</i> APPROVED <i>Edman C. Harkins</i>		COMPUTER ASSEMBLY	
APPROVED <i>W. J. Harkins</i> APPROVED <i>W. J. Harkins</i>	OFFICE IDENT NO 802330	SHIP J	DRAWING NO 2003200
APPROVED <i>W. J. Harkins</i> APPROVED <i>W. J. Harkins</i>	DATE SCALE	SHEET 2	OF 2





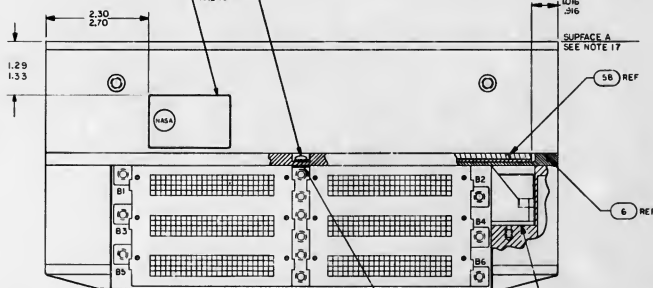
PARTIAL SECTION F F
SCALE: 2/1



VIEW B-B



VIEW E-E



VIEW A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE ABC, COLDATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC
3. ADD SILICONE GREASE 1006879 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
4. ASSEMBLE FIND 117533 AND FIND NO.63 TO FIND NO.6 AND FIND NO.6 TO FIND NO.2 PRIOR TO ASSEMBLY OF FIND NO.2 TO FIND NO.1 OR FIND NO.72
5. BOND FIND NO.43 TO FIND NO.1 OR FIND NO.72 PER NDI002004 TYPE II
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS
7. TORQUE FIND NO.47 TO 28/32 INCH POUNDS
8. FINISH IS REQUIRED TO SATISFY ICD GAC 510-10001
9. APPLY SEALING COMPOUND MIL-5-22473 GRADE H TO FIND NO.53, FIND NO.56 AND FIND NO.44
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2160005
11. TORQUE FOR FIND NO.56 MOUNTING SCREWS TO BE 4/6 INCH POUNDS
12. TORQUE FOR FIND NO.46, 49, 50, 67 AND 68 TO BE 18/22 INCH POUNDS
13. TORQUE FOR FIND NO.53 TO BE 4/6 INCH POUNDS
14. TORQUE FOR FIND NO.44 AND FIND NO.56 TO BE 137/157 INCH POUNDS
15. FIND NO.40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. NAME COMPUTER ASSEMBLY AND RELATED PART NO. APPLICABLE DASH NO. SERIAL NO. AND CONTRACT NO. PER ICD002009 AND SERIALIZE PER ICD002009
17. FINISH SURFACE PER ICD NAA MHOI-01302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING
18. ELECTRICAL BONDING REQUIREMENTS OF ICD NAA MHOI-01302-116
19. THE FOLLOWING RESISTANCES TO BE NOT MORE THAN 20 MILLIOHMS:
 - a. RESISTANCE BETWEEN FIND NO.3 AND FIND NO.6
 - b. RESISTANCE BETWEEN FIND NO.2 AND FIND NO.5
 - c. RESISTANCE BETWEEN FIND NO.3 AND FIND NO.6 OR BETWEEN FIND NO.69 AND FIND NO.70

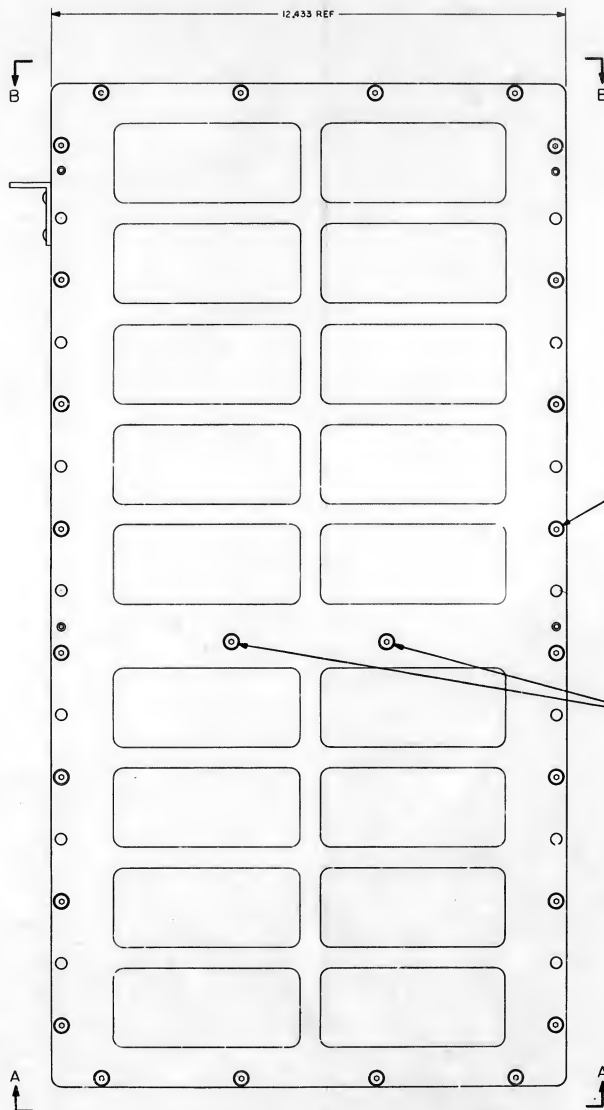
19. LEAK TEST PURGE AND FILL WITH 30±10 PSIA DRY NITROGEN STORE AT ROOM AMBIENT FOR 24 HOURS. TEST PRESSURE FOR 4P-Q5 PSIA. ALL MEASUREMENTS MADE AT STANDARD TEMPERATURE 22°C. FOLLOWING TEST BLEED TO 17±10 PSIA
20. BOND FIND NO.47 TO FIND NO.6 IN POSITION SHOWN, USING 1006338
21. REFINISHED MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10
22. THE VALUE OF CI TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART
23. WHEN THE VALUE OF CI IS 10° NO COMPONENT SHALL BE USED
24. ENCAPSULATE ARE: SHOWING AFTER SELECTION AND INSTALLATION OF CI USING NDI002009 METHOD C OR D USING PRIMER PER SCD 1012513
25. WELD PER NDI002009
26. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO.39 IN CONTACT WITH SCREW HEAD
27. FIND NO.38, 48, 58 & 57 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED

28. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FIND NO.66, OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED

2003200

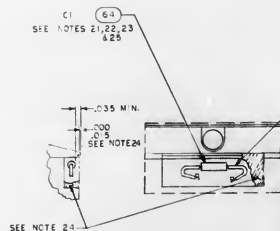
D

C-021-011		LIST OF MATERIALS	
MIT INSTRUMENTATION LAB CAMDEN, MD DRAWN BY <i>W. J. [Signature]</i> CHECKED BY <i>W. J. [Signature]</i> APPROVED BY <i>W. J. [Signature]</i>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS COMPUTER ASSEMBLY	
APPROVED BY <i>W. J. [Signature]</i> MIT APPROVED BY <i>W. J. [Signature]</i> DISC	CODE IDENT NO 80230	SIZE J	DRAWING NO 2003200
DATE	SCALE	SHEET 1 OF 2	



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENS ARE OTHER TOLERANCES ON FRACTIONS. DECIMALS AND P.O.D. ARE NOT SCALE THIS DRAWING. NOTES		MIT INSTRUMENTATION LAB DRAWN BY: <i>John C. Gentry</i> CHECKED BY: <i>John C. Gentry</i> APPROVED BY: <i>John C. Gentry</i>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS COMPUTER ASSEMBLY	
2003991		APPROVED BY: <i>John C. Gentry</i> APPROVED BY: <i>John C. Gentry</i> APPROVED BY: <i>John C. Gentry</i>	CODE IDENT NO. 80230J SIZE J DATE 8/2/68	DRAWING NO. 2003200 SHEET 1 OF 2	
NEXT ASY USED ON APPLICATION					

CI	PART NO.	VALUE
	1006777-1	10
	-15	150
	-16	330
	-20	470
	-22	680
	-23	820
SEE NOTE 23	0	0



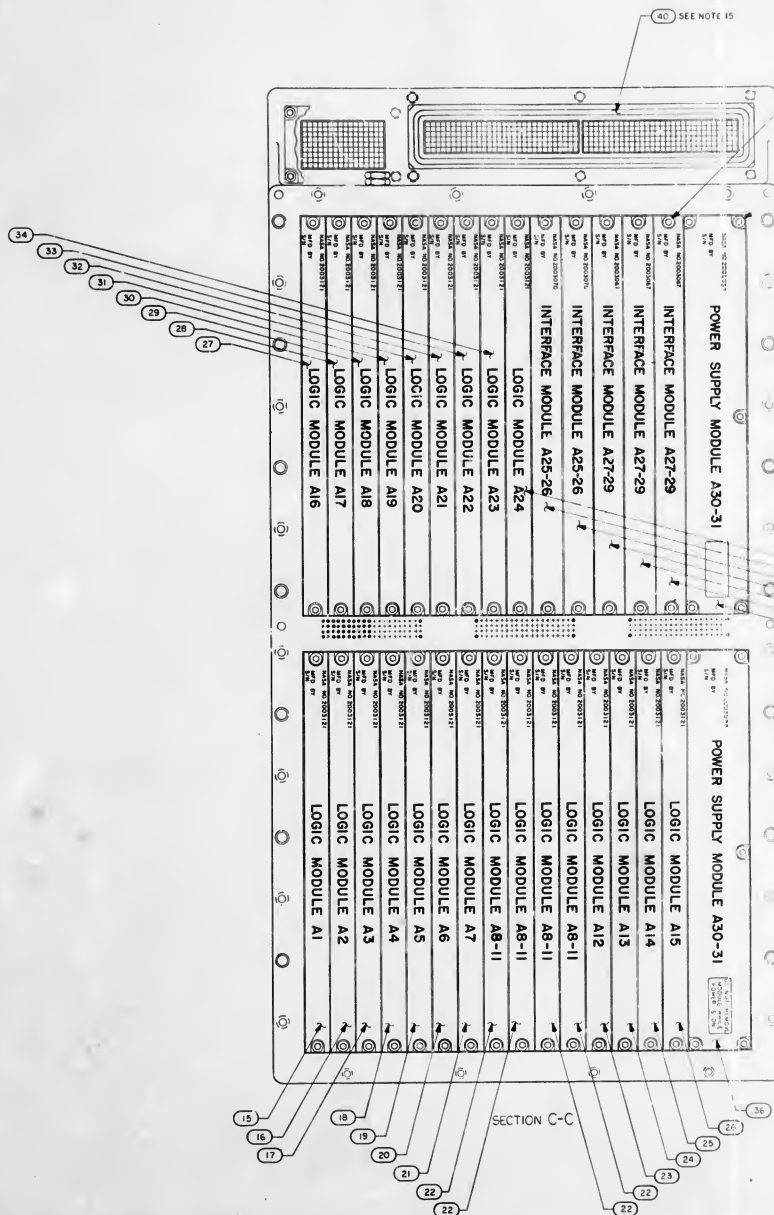
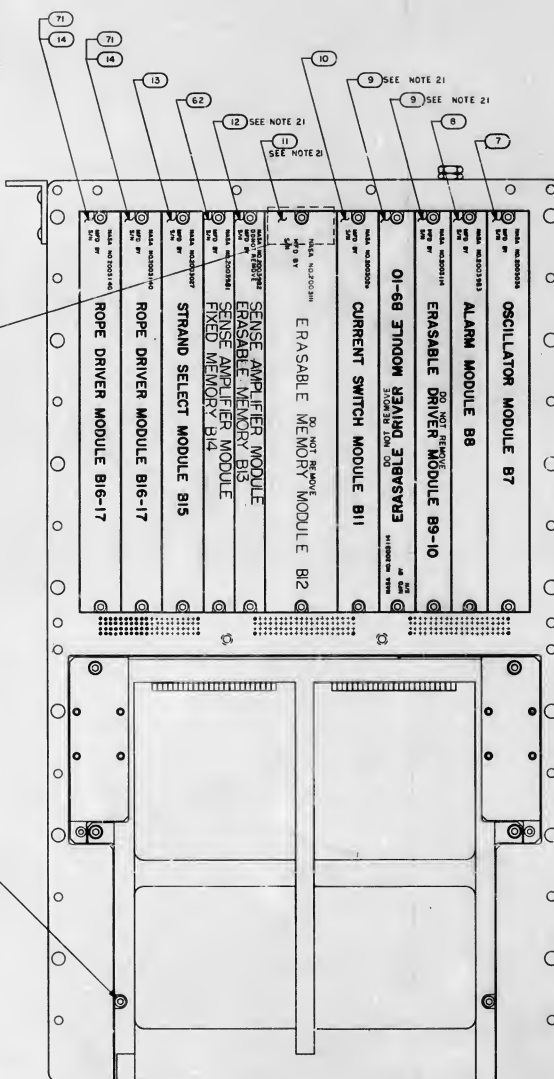
SEE NOTES
12 & 28

- PACKAGING REFERENCE DRAWINGS:
1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

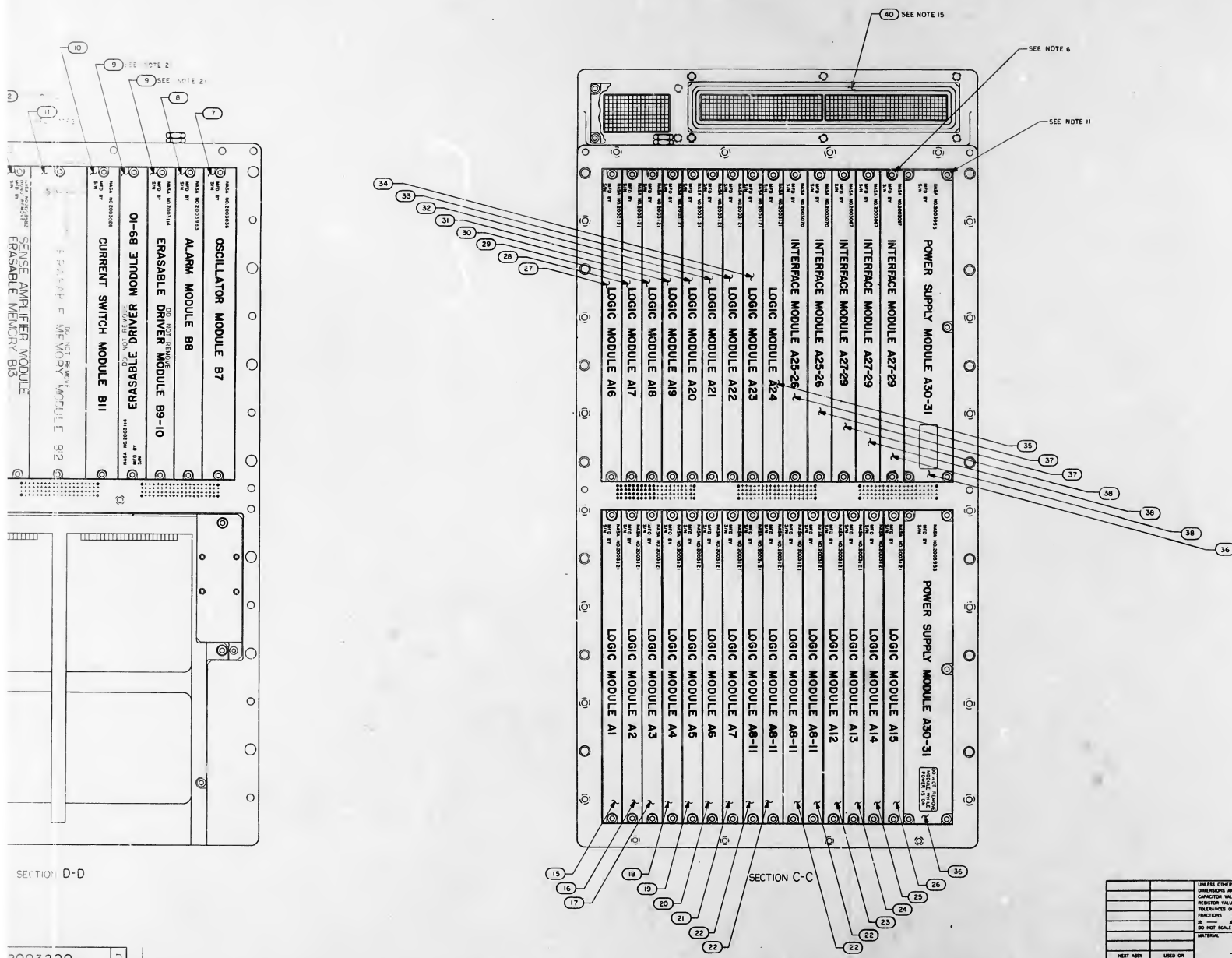
SECTION D-D

2003200

D



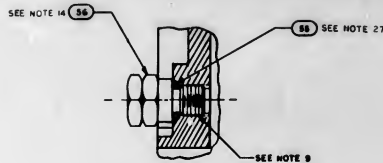
REVISIONS					
REV	DATE	DESCRIPTION	BY	CHKD	APPROVED
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B	2/20/67	REVISED PER TORR 30887	WTC	WTC	WTC
C	2/20/67	REVISED PER TORR 30890	WTC	WTC	WTC
D	2/20/67	REVISED PER TORR 32353	WTC	WTC	WTC



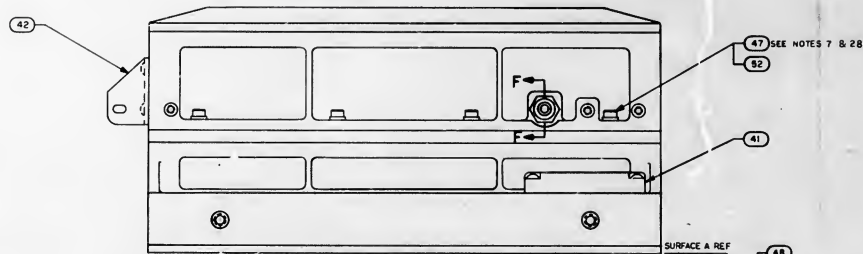
SECTION D-D

SECTION C-C

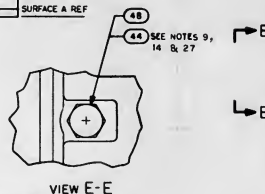
NET NO. IDENTIFYING NO. INSTRUMENTATION LAB CAMBRIDGE, MASS.		NOMENCLATURE OR DESCRIPTION MANNED SPACECRAFT CENTER HOUSTON, TEXAS		REV. NO. 1
DRAWING NO. 2236 CHECKED BY [Signature] APPROVED BY [Signature]		CODE IDENT. NO. 80230 J		DRAWING NO. 2003200 2 OF 2
MATERIAL UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN P.F. RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES .10 .15 .20 .25 .30 .35 .40 .45 .50 .55 .60 .65 .70 .75 .80 .85 .90 .95 .00 DO NOT SCALE THIS DRAWING		APPLICATION NEXT ASSY USED ON		



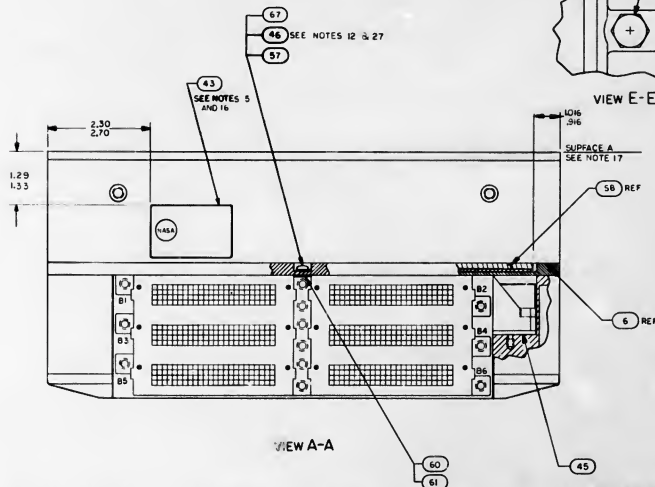
PARTIAL SECTION F F
SCALE: 2/1



VIEW B-B



VIEW E-E



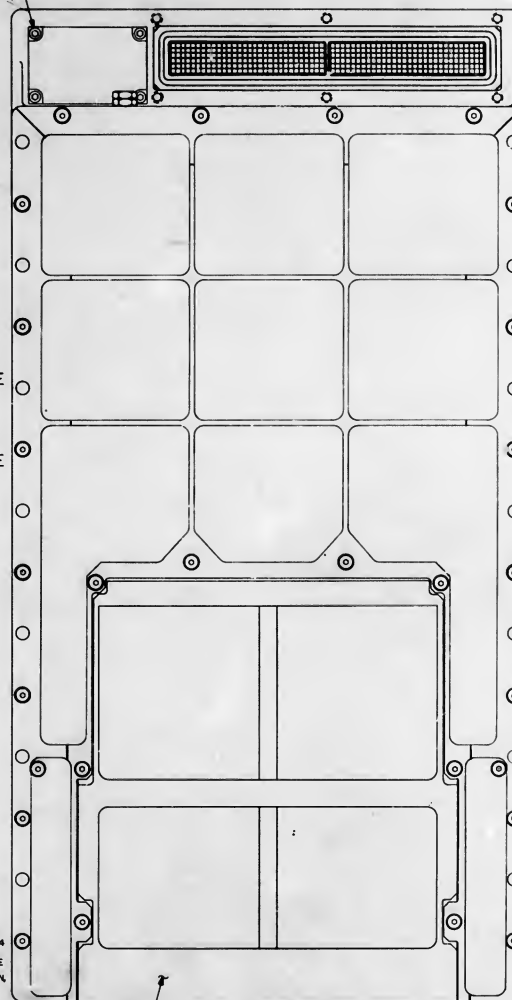
VIEW A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGC. COILPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. ADD SILICONE GREASE (006819) TO MODULE MATING SURFACES AND TRAY MATING SURFACES.
4. ASSEMBLE FIND NO. 33 AND FIND NO. 63 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 1 OR FIND NO. 72.
5. BOND FIND NO. 43 TO FIND NO. 1 OR FIND NO. 72 PER ND1002004 TYPE IX.
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS.
7. TORQUE FIND NO. 47 TO 28/32 INCH POUNDS.
8. FINISH IS REQUIRED TO SATISFY ICD GAE 510-10001.
9. APPLY SEALING COMPOUND MIL-S-22673 GRADE H TO FIND NO. 33, FIND NO. 56 AND FIND NO. 44.
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2016005.
11. TORQUE FOR FIND NO. 36 MOUNTING SCREWS TO BE 4/6 INCH POUNDS.
12. TORQUE FOR FIND NO. 46, 49, 50, 67 AND 68 TO BE 18/22 INCH POUNDS.
13. TORQUE FOR FIND NO. 53 TO BE 4/6 INCH POUNDS.
14. TORQUE FOR FIND NO. 44 AND FIND NO. 56 TO BE 137/157 INCH POUNDS.
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
16. MARK COMPONENT ASSEMBLY AND RELATED PART NO. APPLICABLE DRAWING NO., SERIAL NO. AND CONTRACT NO. PER 1004260 AND SERIALIZE PER ND1002023.
17. FINISH SURFACE (SEE NOTE 17) PER ICD NAA MHI-01302-116. THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICD NAA MHI-01302-116.
18. THE FOLLOWING RESISTANCES TO BE NOT MORE THAN 20 MILLION OHMS:
 - A. RESISTANCE BETWEEN FIND NO. 1 AND FIND NO. 6.
 - B. RESISTANCE BETWEEN FIND NO. 2 AND FIND NO. 5.
 - C. RESISTANCE BETWEEN FIND NO. 3 AND FIND NO. 4 OR BETWEEN FIND NO. 69 AND FIND NO. 70.

19. LEAK TEST: PURGE AND FILL WITH 30±10 PSIA DRY NITROGEN STORE AT ROOM AMBIENT FOR 24 HOURS. TEST PRESSURE FOR APH-CO PSIA. ALL MEASUREMENTS MADE AT STANDARD TEMPERATURE 23±2 FOLLOWING TEST BLEED TO 17.0 PSIA. BOND FIND NO. 58 TO FIND NO. 6 IN POSITION SHOWN, USING LOCKWASH.
20. REFERENCED MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10.
21. THE VALUE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART.
22. WHEN THE VALUE OF C1 IS 10° NO COMPONENT SHALL BE USED.
23. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF C1 USING ND1002009 METHOD C OR D USING PRIMER PER ICD 101519.
24. WELD PER ND1002005.
25. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD.
26. FIND NO. 39, 48, 55 & 57 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED.

49 SEE NOTE 12
51



5
SEE NOTE 19

28. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FIND NO. 66, OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED.

SEE NOTES 12, 24, 27, & 28
46
39
67

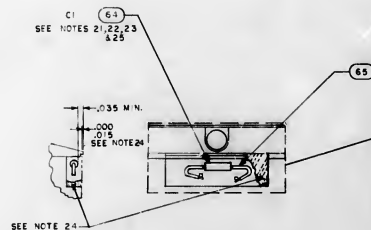
SEE NOTES 7 & 28
47
52
70
4
SEE NOTE 18

SEE NOTES 12, 24, 27, & 28
46
39
67

73
6
SEE NOTES 4 & 18
2
SEE NOTE 18

46
67
SEE NOTE 18

CI		
PART NO.	VALUE	UNIT
1008777-1	150	IN
-15	330	IN
-18	470	IN
-20	650	IN
-22	850	IN
-24	0	IN
SEE NOTE 23		



SEE NOTES
12 & 28

PACKAGING REFERENCE DRAWINGS:
1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

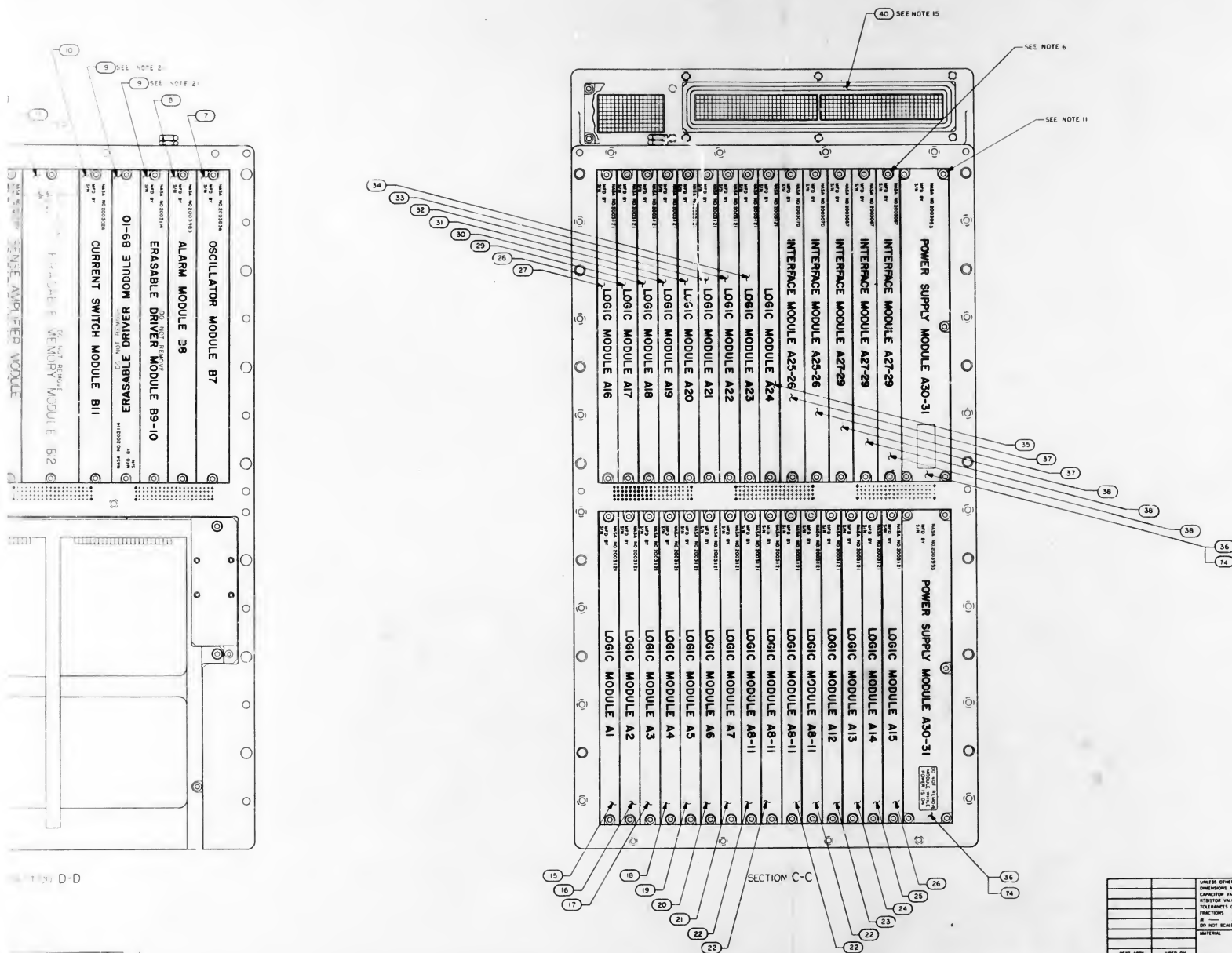
SECTION D-D

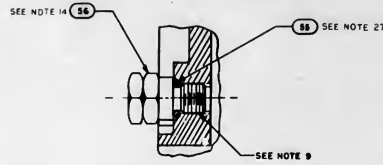
2003200

E



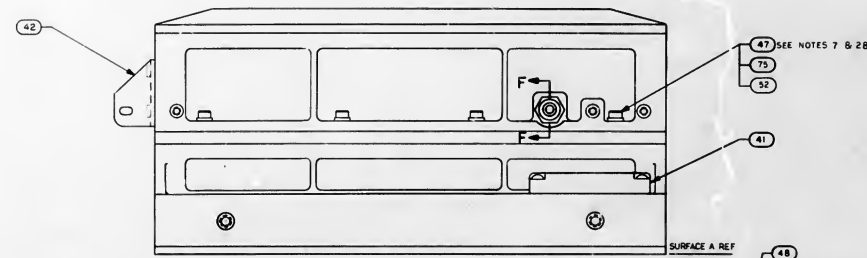
SECTION C-C

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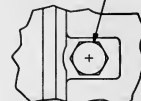


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SCALE: 2/1

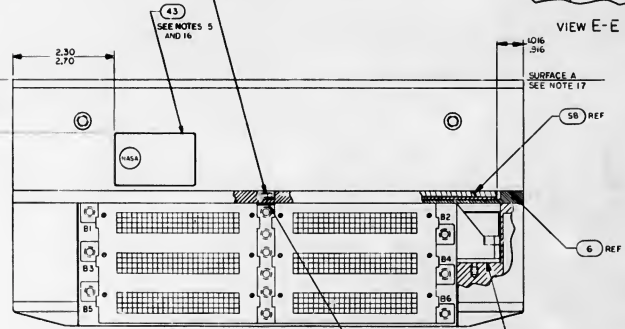
49 SEE NOTE 12
51



VIEW B-B



VIEW E-E



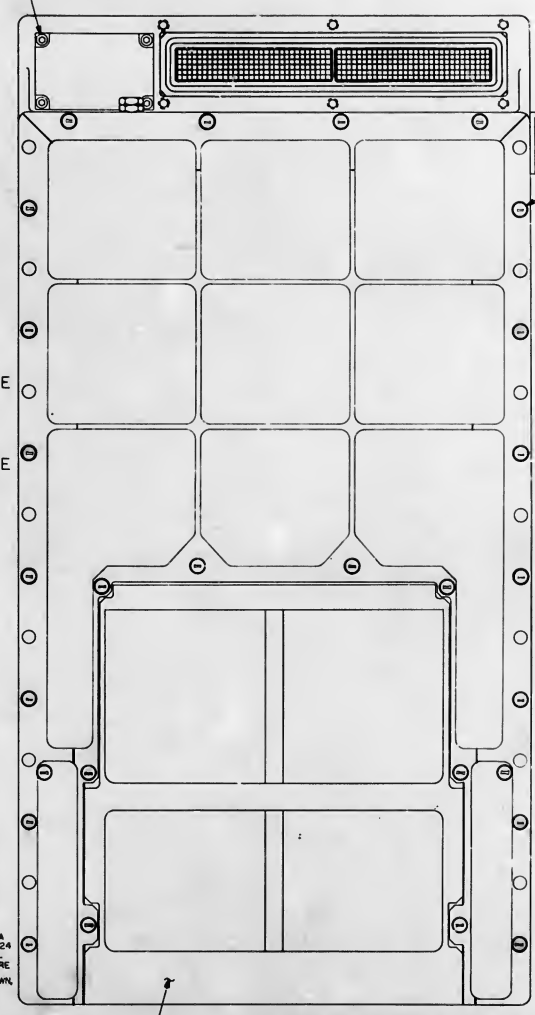
VIEW A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGC COUPLER AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. ADD SILICONE COMPOUND (MIL-5-22473) TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
4. ASSEMBLE FIND NO.53 AND FIND NO.63 TO FIND NO.6 AND FIND NO.6 TO FIND NO.2 PRIOR TO ASSEMBLY OF FIND NO.2 TO FIND NO.1 OR FIND NO.72
5. HONED FIND NO.43 TO FIND NO.1 OR FIND NO.72 PER NO.000004 TYPE II
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS
7. TORQUE FIND NO.47 OR FIND NO.75 TO 25/32 INCH POUNDS
8. FINISH IS RED. RED TO SATISFY ICD GAEI 910-10001
9. APPLY SEALING COMPOUND MIL-5-22473 GRADE H TO FIND NO.53, FIND NO.56 AND FIND NO.44
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2010005
11. TORQUE FOR FIND NO.36 MOUNTING SCREWS TO BE 4/5 INCH POUNDS
12. TORQUE FOR FIND NO.46, 49, 50, 76 AND 68 TO BE 18/22 INCH POUNDS
13. TORQUE FOR FIND NO.55 TO BE 4/5 INCH POUNDS
14. TORQUE FOR FIND NO.44 AND FIND NO.66 TO BE 137/157 INCH POUNDS
15. FIND NO.40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. MARK COMPUTER ASSEMBLY AND RELATED PARTS, APPLICABLE DASH NO., SERIAL NO. AND CONTRACT NO. PER 1004250 AND SERIALIZE PER 10100203
17. FINISH SURFACE (A) PER ICD NAA MHOI-01302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICD NAA MHOI-01302-116
18. THE FOLLOWING RESISTANCES TO BE NOT MORE THAN 40 MILDHMS:
 - a. RESISTANCE BETWEEN FIND NO.1 AND FIND NO.6
 - b. RESISTANCE BETWEEN FIND NO.2 AND FIND NO.5
 - c. RESISTANCE BETWEEN FIND NO.3 AND FIND NO.4 OR BETWEEN FIND NO.69 AND FIND NO.70

19. LEAK TEST: PURGE AND FILL WITH 30±0.0PSIA DRY NITROGEN STORE AT ROOM AMBIENT FOR 24 HOURS. TEST PRESSURE FOR 40±0.0PSIA. ALL MEASUREMENTS MADE AT STANDARD TEMPERATURE 25°C FOLLOWING TEST BLEED TO 17±0.0PSIA
20. BOND FIND NO.58 TO FIND NO.6 IN POSITION SHOWN USING 1006338
21. REFERENCES: MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10
22. THE VALUE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART
23. WHEN THE VALUE OF C1 IS 0 NO COMPONENT SHALL BE USED
24. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF C1 USING ND1002009 METHOD C OR D USING PRIMER PER SCD 1012513
25. WELD PER ND000205
26. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO.39 IN CONTACT WITH SCREW HEAD
27. FIND NO.39, 48, 55 & 57 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED

5 SEE NOTE 19



46 SEE NOTES 12, 26, 27, & 28
39
77

73
4
SEE NOTES 4 & 11

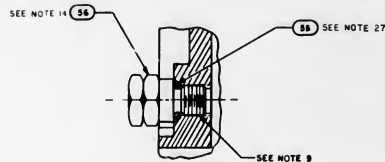
2
SEE NOTE 18

72
1
SEE NOTE 18

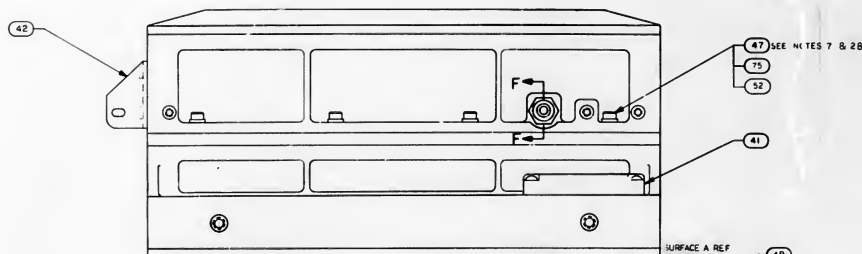
47
75
52
4
70
SEE NOTES 7 & 28
SEE NOTE 18

46
39
77
SEE NOTES 12, 26, 27, & 28

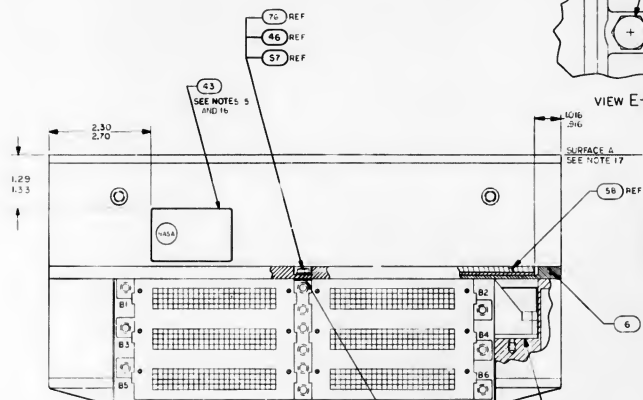
28. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FIND NO.66, OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED
29. KEEP ALL MATING THREADS OF SCREWS, TRAY AND MID-SPACER INSERTS FREE OF SILICONE COMPOUND



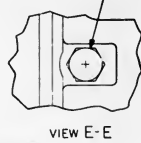
PARTIAL SECTION F F
SCALE: 2/1



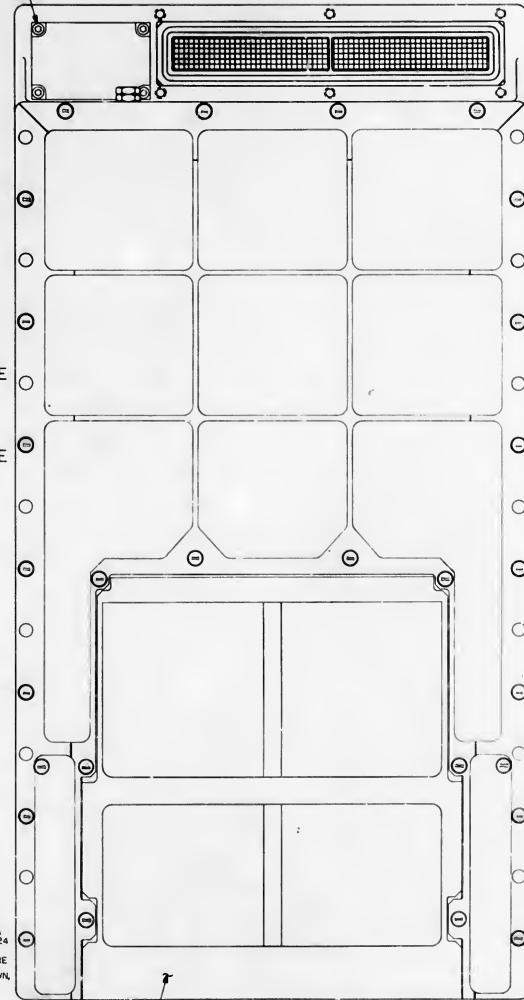
VIEW B-B



VIEW A-A



VIEW E-E



- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. PHANTOM LINES DENOTE AGC, COILPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
 3. ADD SILICONE SEALING COMPOUND TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
 4. ASSEMBLE FIND NO. 53 AND FIND NO. 63 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 1 OR FIND NO. 72
 5. BOND FIND NO. 43 TO FIND NO. 1 OR FIND NO. 72 PER ND1002004 TYPE XX
 6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS
 7. TORQUE FIND NO. 47 OR FIND NO. 75 TO 27/32 INCH POUNDS
 8. IF NECESSARY SEALING COMPOUND MIL-S-22473 GRADE H TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44
 9. UNCOMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2016005
 10. TORQUE FOR FIND NO. 36 MOUNTING SCREWS TO BE 4/8 INCH POUNDS
 11. TORQUE FOR FIND NO. 46, 49, 50, 74 AND 58 TO BE 18/22 INCH POUNDS
 12. TORQUE FOR FIND NO. 53 TO BE 4/8 INCH POUNDS
 13. TORQUE FOR FIND NO. 44 AND FIND NO. 56 TO BE 137/157 INCH POUNDS
 14. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
 15. MARK COMPUTER ASSEMBLY AND RELATED PART NO. APPLICABLE DASH NO., SERIAL NO. AND CONTRACT NO. PER 1004260 AND SERIALIZE PER ND1002023
 16. FINISH SURFACE \square PER ICD NAA MHOI-D-1302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICD NAA MHOI-D-1302-116
 17. THE FOLLOWING RESISTANCES TO BE NOT MORE THAN 20 MEGOHMS:
 - A. RESISTANCE BETWEEN FIND NO. 1 AND FIND NO. 6
 - B. RESISTANCE BETWEEN FIND NO. 2 AND FIND NO. 5
 - C. RESISTANCE BETWEEN FIND NO. 3 AND FIND NO. 4 OR BETWEEN FIND NO. 69 AND FIND NO. 70

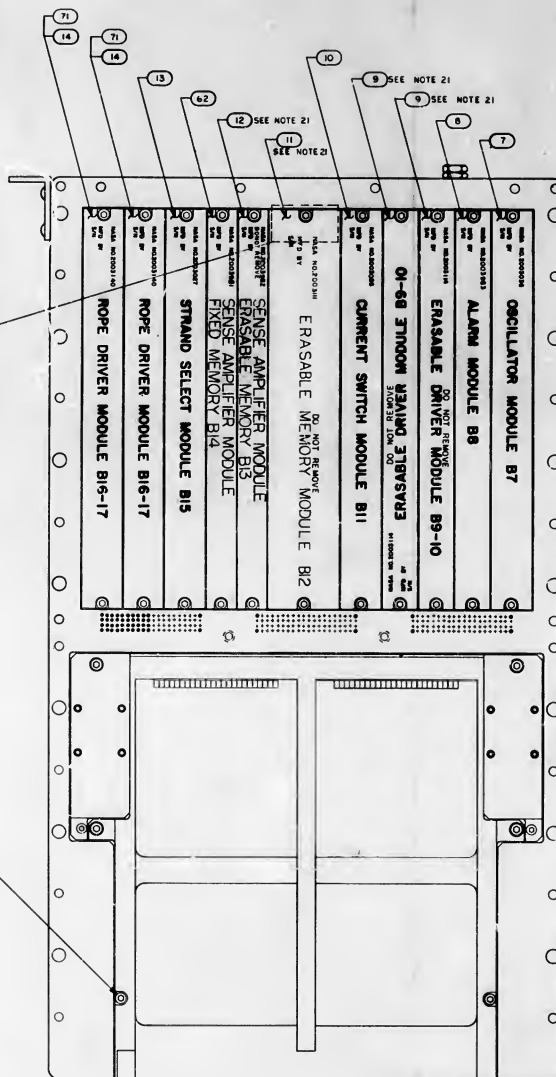
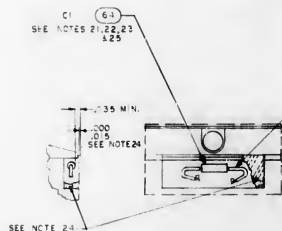
18. LEAK TEST: PURGE AND FILL WITH 30:10:50% DRY NITROGEN STORE AT ROOM AMBIENT FOR 24 HOURS. TEST PRESSURE FOR 40-55 PSIA. ALL MEASUREMENTS MADE AT STANDARD TEMPERATURE 23°C FOLLOWING TEST BLEED TO 17.10 PSIA BOND FIND NO. 58 TO FIND NO. 6 IN POSITION SHOWN, USING 100538
19. REFERENCED MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10
20. THE VALUE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART
21. WHEN THE VALUE OF C1 IS 10° NO COMPONENT SHALL BE USED
22. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF C1 USING ND1002009 METHOD C OR D USING PRIMER PER SCD 1012513
23. WELD PER ND1002005
24. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD
25. FIND NO. 39, 48, 55 & 57 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED

26. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FIND NO. 46, OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED
27. KEEP ALL MATING THREADS OF SCREWS, TRAY AND MID-SPACE INSERTS FREE OF SILICONE COMPOUND

1

2003200A

CI	PART NO.	VALUE
	1006777-1	10
	-15	150
	-19	330
	-20	470
	-22	680
	-23	820
SEE NOTE 23		0

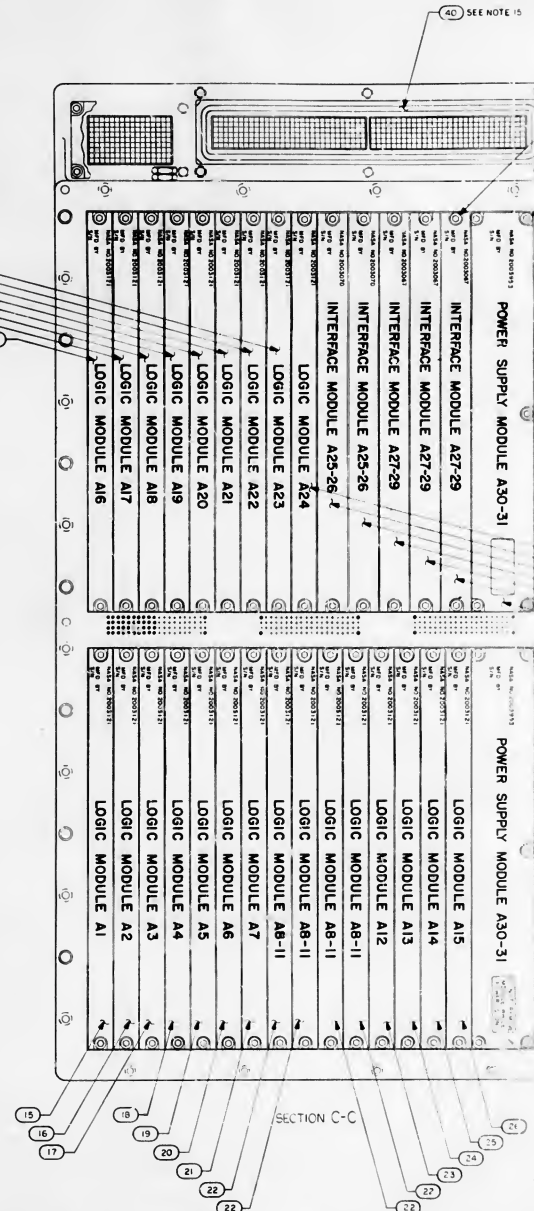


SECTION D-D

PACKAGING REFERENCE DRAWINGS:
 1. AGC CONNECTOR COVER KIT 2014399
 2. AGC HANDLING FIXTURE ASSY 2014282
 3. AGC SHIPPING CONTAINER 1006421

2003200

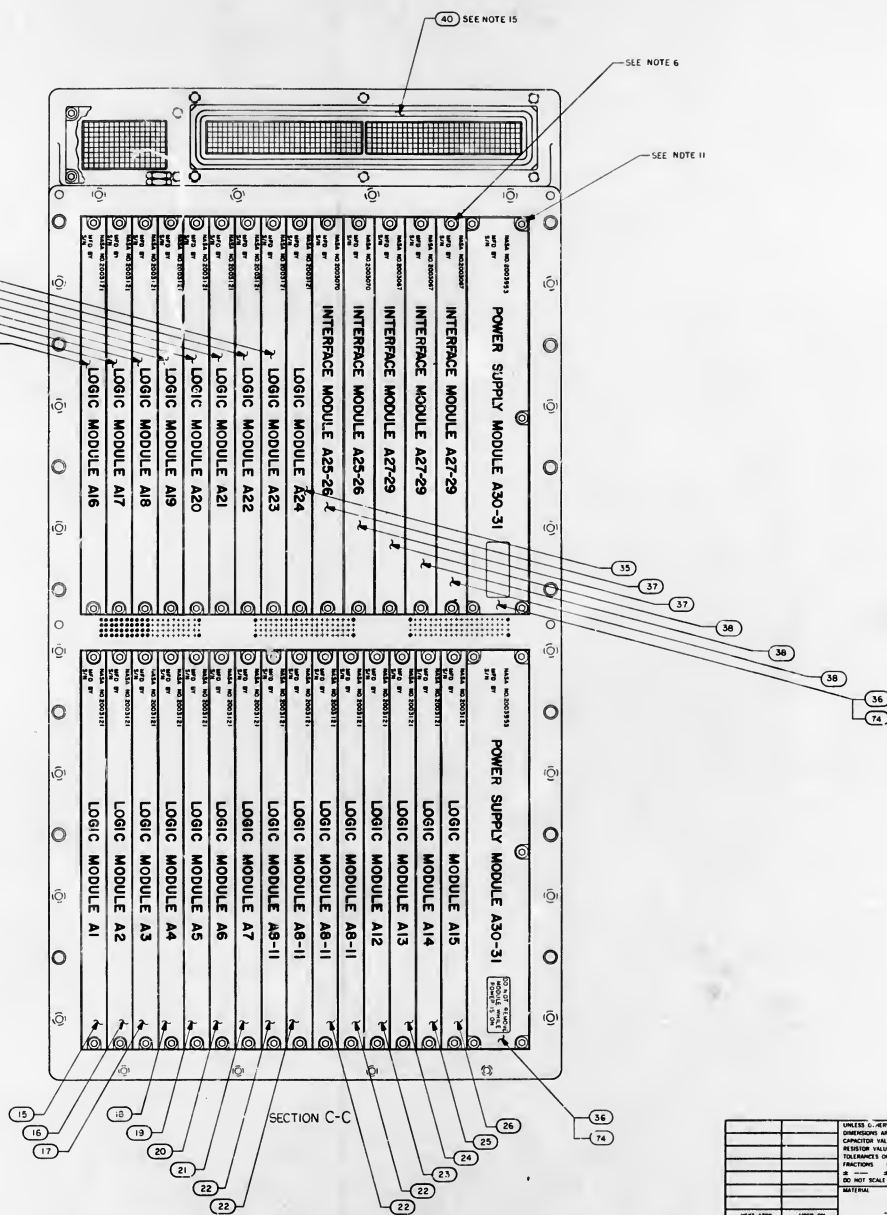
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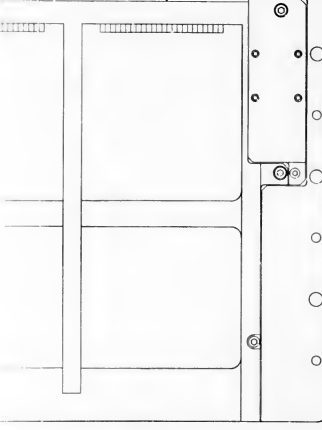
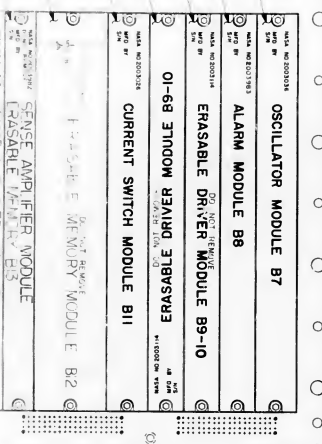
SECTION C-C

4C SEE NOTE 15

REVISIONS				
REV	DATE	DESCRIPTION	BY	CHK
1	APR 72	REVISED PER TORR 28062	W. J. HALL	W. J. HALL
2	MAY 72	REVISED PER TORR 32884	W. J. HALL	W. J. HALL
3	JUN 72	REVISED PER TORR 30890	W. J. HALL	W. J. HALL
4	MAY 72	REVISED PER TORR 32353	W. J. HALL	W. J. HALL
5	MAY 72	REVISED PER TORR 32873	W. J. HALL	W. J. HALL
6	MAY 72	REVISED PER TORR 32884	W. J. HALL	W. J. HALL



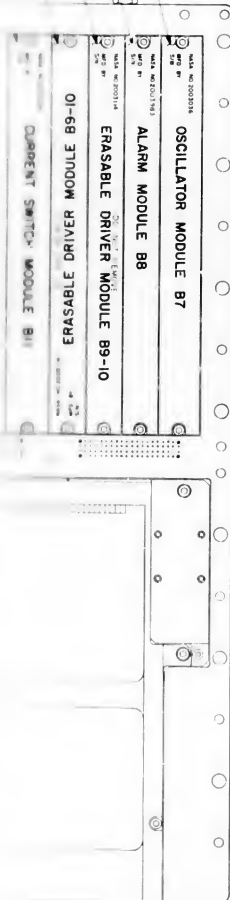
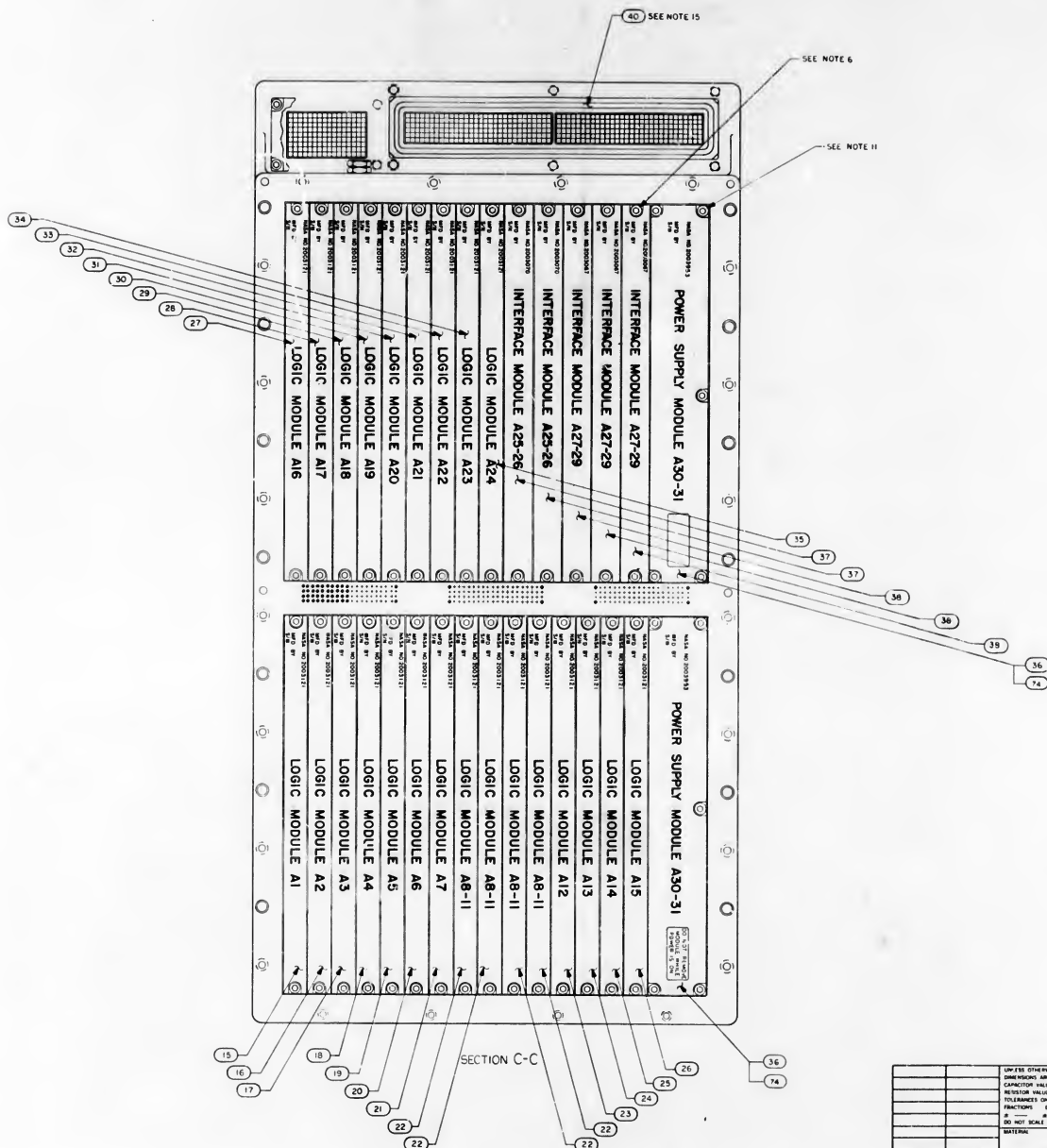
SECTION C-C



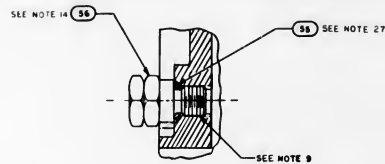
SECTION D-D

QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	UNIT
LIST OF MATERIALS			
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
COLUMBIA, MISSOURI		HOUSTON, TEXAS	
DRAWN BY: <i>W. J. HALL</i>		CHECKED BY: <i>W. J. HALL</i>	
APPROVED BY: <i>W. J. HALL</i>		APPROVED BY: <i>W. J. HALL</i>	
MATERIAL		MATERIAL	
UNIT ASSEMBLY		UNIT ASSEMBLY	
APPLICATION		APPLICATION	
DATE		DATE	
SCALE		SCALE	
SHEET NO. 1		SHEET NO. 1	
TOTAL SHEETS 1		TOTAL SHEETS 1	

REVISIONS 2-9-97						
BY	DATE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDAR 28062				
B		REVISED PER TDAR 3086	WHS		11/2/94	TSR
C		REVISED PER TDAR 30990	WHS		11/2/94	TSR
D		REVISED PER TDAR 32363	WHS		11/2/94	TSR
E		REVISED PER TDAR 32873	WHS		11/2/94	TSR
F		REVISED PER TDAR 32867	WHS		11/2/94	TSR

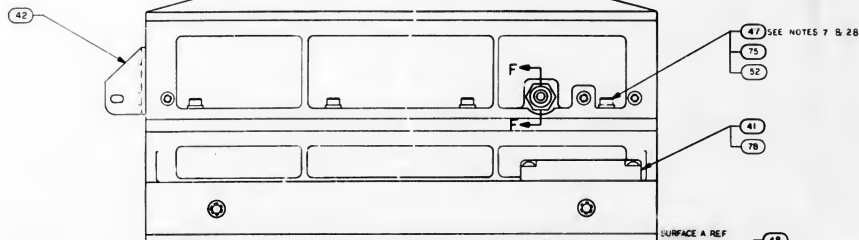


PART OF IDENTIFYING NO.		NOMINAL CALL SIGN OR ALPHA TAIL		FILE NO.	
LIST OF MATERIALS		MANNED AIRCRAFT CENTER			
INSTRUMENTATION, LAB		ROCKET TEST			
DESIGN <i>2136</i> DRAWING <i>2136</i> APPROVED <i>CDM, C. H. J. L. L.</i>		COMPUTER ASSEMBLY			
BY <i>CDM</i> DATE <i>2136</i> APPROVED <i>CDM, C. H. J. L. L.</i>		DATE <i>2136</i> FILE NO. <i>2003290</i> SERIAL <i>2136</i> UNIT <i>2136</i>			
NEXT PAGE USED ON APPLICATION					

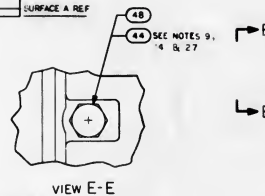


PARTIAL SECTION F F
SCALE: 2/1

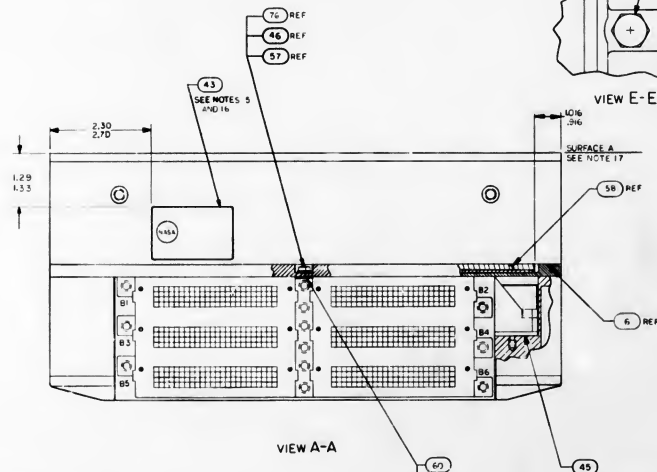
49 SEE NOTE 12
51



VIEW B-B



VIEW E-E



VIEW A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGC COUPLER AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC
3. ADD SILICONE COMPOUND 100B79 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
4. ASSEMBLE FIND NO. 53 AND FIND NO. 63 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 1 OR FIND NO. 72
5. BOND FIND NO. 43 TO FIND NO. 1 OR FIND NO. 72 PER NDI002004 TYPE II
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS
7. TORQUE FIND NO. 47 OR FIND NO. 75 TO 28/32 INCH POUNDS
8. FINISH IS REQUIRED TO SATISFY ECD GAE 310-10001
9. APPLY SEALING COMPOUND MIL-S-22473 GRADE H TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2016005
11. TORQUE FOR FIND NO. 56 MOUNTING SCREWS TO BE 4/6 INCH POUNDS
12. TORQUE FOR FIND NO. 46, 49, 50, 74 AND 68 TO BE 16/22 INCH POUNDS
13. TORQUE FOR FIND NO. 55 TO BE 4/6 INCH POUNDS
14. TORQUE FOR FIND NO. 44 AND FIND NO. 56 TO BE 137/157 INCH POUNDS
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. HARDWARE COMPUTER ASSEMBLY RELATED PARTS, APPLICABLE DATA, SERIAL NO. AND CONTRACT NO. PER 1004250 AND SERIALIZE PER NDI002023
17. FINISH SURFACE [A] PER ECD NAA MHOI-01302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ECD NAA MHOI-01302-116
18. THE FOLLOWING RESISTANCES TO BE NOT MORE THAN 20 MEGOHMS:
A. RESISTANCE BETWEEN FIND NO. 1 AND FIND NO. 6
B. RESISTANCE BETWEEN FIND NO. 2 AND FIND NO. 5
C. RESISTANCE BETWEEN FIND NO. 3 AND FIND NO. 4 OR BETWEEN FIND NO. 69 AND FIND NO. 70

19. LEAK TEST: PURGE AND FILL WITH NO. 810 PSIA DRY NITROGEN, STORE AT ROOM AMBIENT FOR 24 HOURS. TEST PRESSURE FOR 400 PSIA. ALL MEASUREMENTS MADE AT STANDARD TEMPERATURE
20. FOLLOWING TEST BLEED TO 1740 PSIA
21. BOND FIND NO. 58 TO FIND NO. 6 IN POSITION SHOWN, PER NDI002038
22. IF MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10
23. THE VALUE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART
24. WHEN THE VALUE OF C1 IS 50° NO COMPONENT SHALL BE USED
25. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF C1 USING NDI002009 METHOD C OR D USING PRIMER PER ECD 102313
26. WELD PER NDI002005
27. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD
28. FIND NO. 39, 48, 55 & 57 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED

SEE NOTE 19

28. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN. THICK COATING OF FIND NO. 64, OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED
29. KEEP ALL MATING THREADS, SCREWS, TRAY AND MID-SPACER INSERTS FREE OF SILICONE COMPOUND

SEE NOTES 4 & 11

SEE NOTE 18

SEE NOTES 1, 24, & 76-18

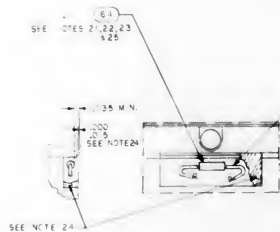
SEE NOTES 7 & 28

SEE NOTE 18

SEE NOTES 46, 59, 61

[illegible]

PART NO.	VALUE
1064777-1	10
-15	150
-16	330
-20	470
-22	680
-23	R20
SEE NOTE 23	0



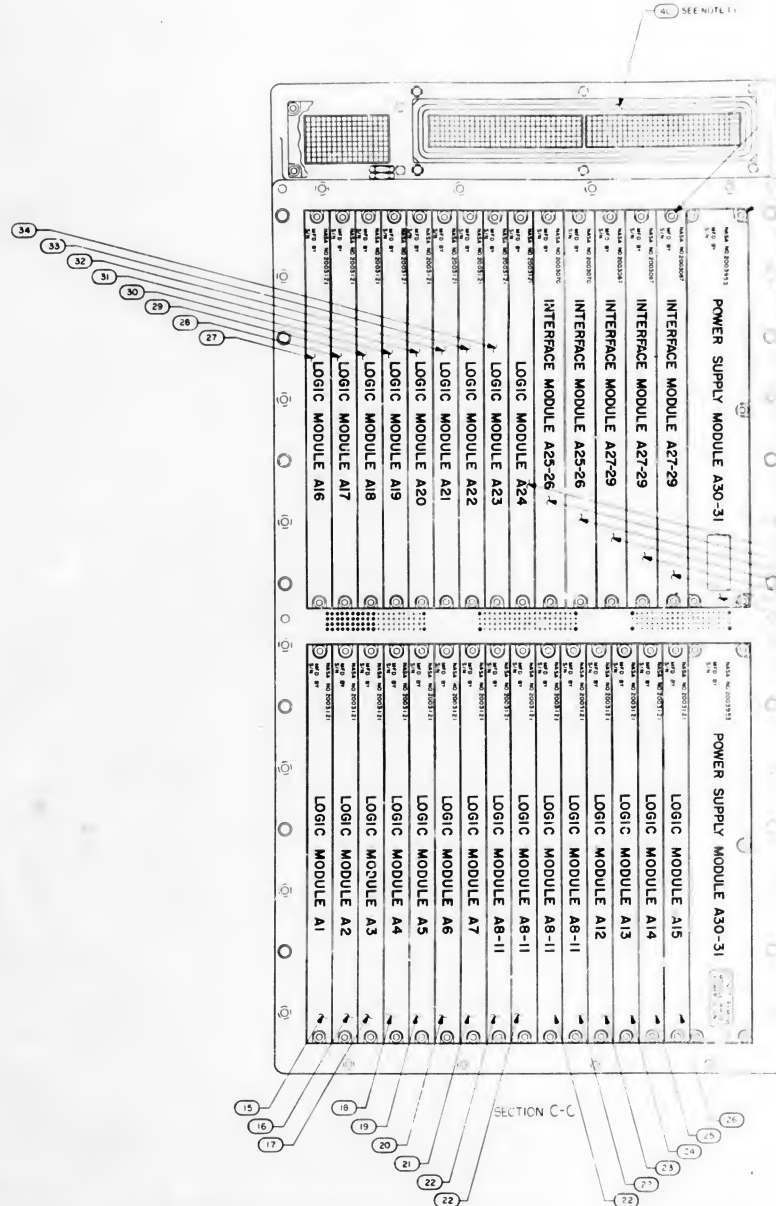
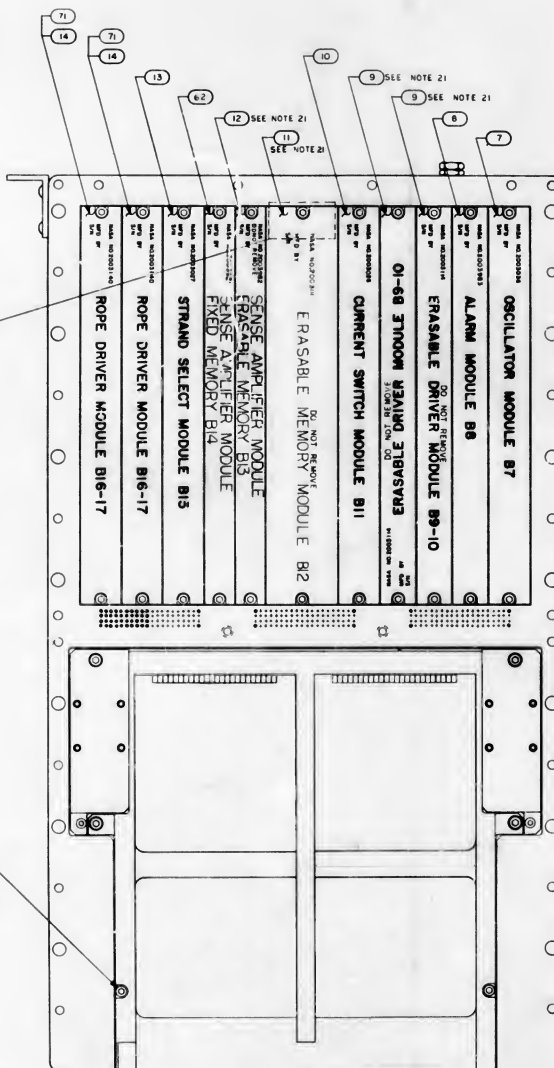
SEE NOTES
12 & 28

PACKAGING REFERENCE DRAWINGS:
1. ABC CONNECTOR COVER KIT 2014399
2. ABC HANDLING FIXTURE ASSY 2014282
3. ABC SHIPPING CONTAINER 1006421

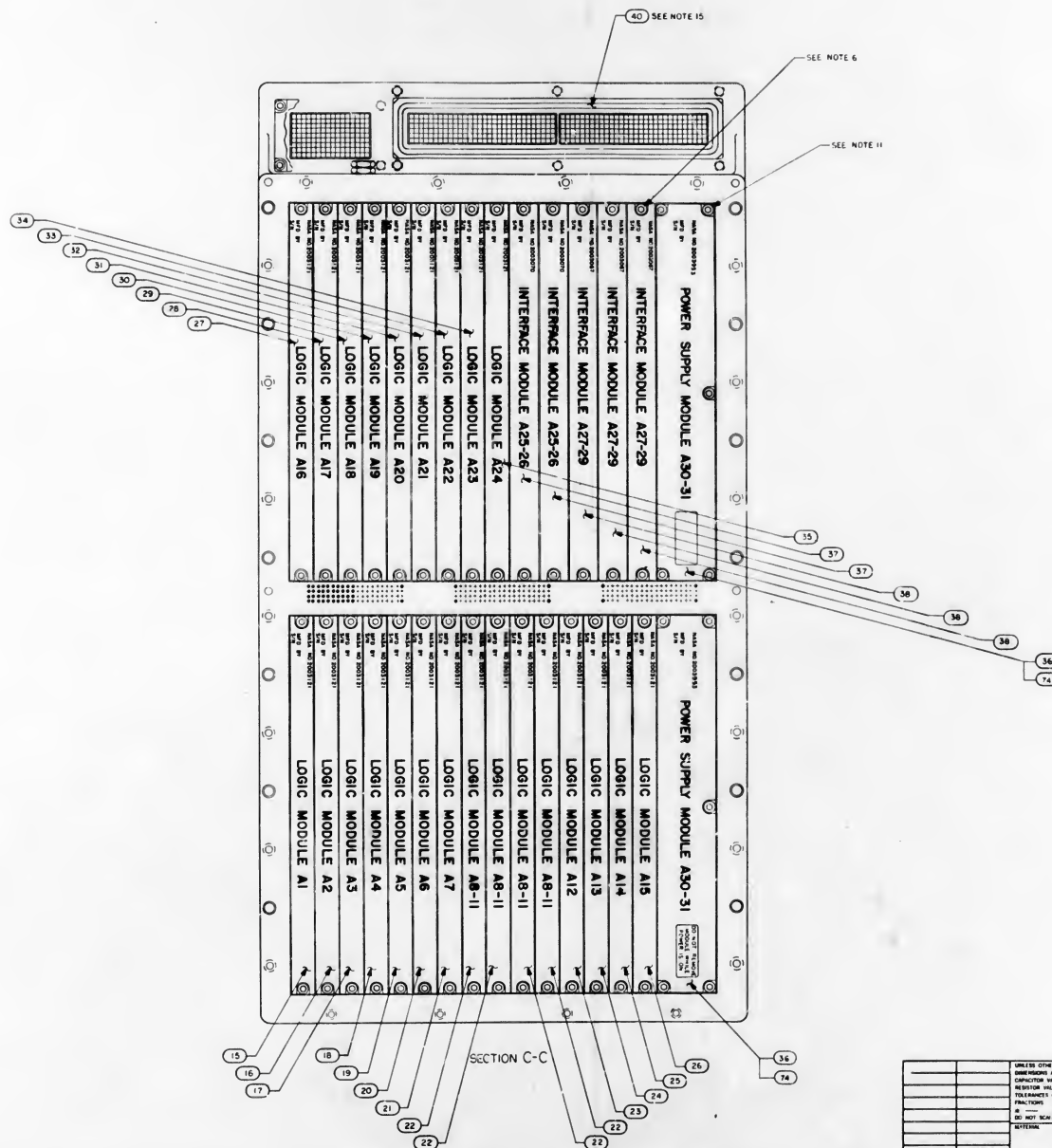
SECTION D-D

2003200

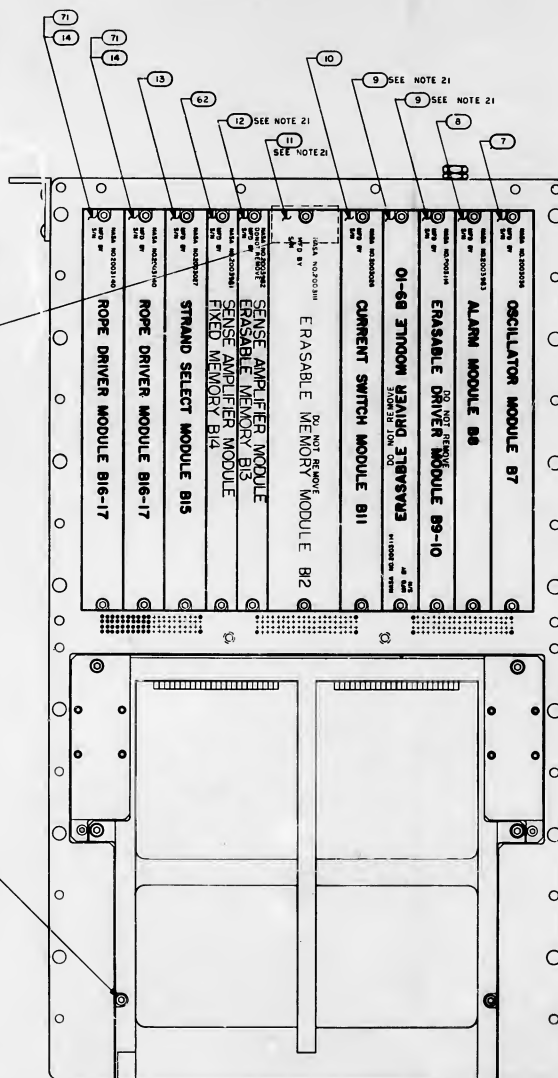
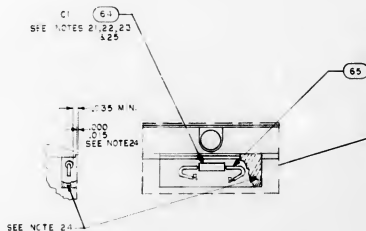
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REVISIONS						
BY	DATE	DESCRIPTION	DATE	CHK	DATE	APPROVE
A		REVISED PER TORR 2B062	1/17/87	100%	1/17/87	
B		REVISED PER TORR 32067	1/17/87	100%	1/17/87	
C		REVISED PER TORR 30B90	1/17/87	100%	1/17/87	
D		REVISED PER TORR 32353	1/17/87	100%	1/17/87	
E		REVISED PER TORR 32873	1/17/87	100%	1/17/87	
F		REVISED PER TORR 32867	1/17/87	100%	1/17/87	
G		REVISED PER TORR 33439	1/17/87	100%	1/17/87	

[illegible]

C1	PART NO.	VALUE
	008777-1	100UF
	15	150
	1E	330
	20	470
	25	680
	23	820
	0	0

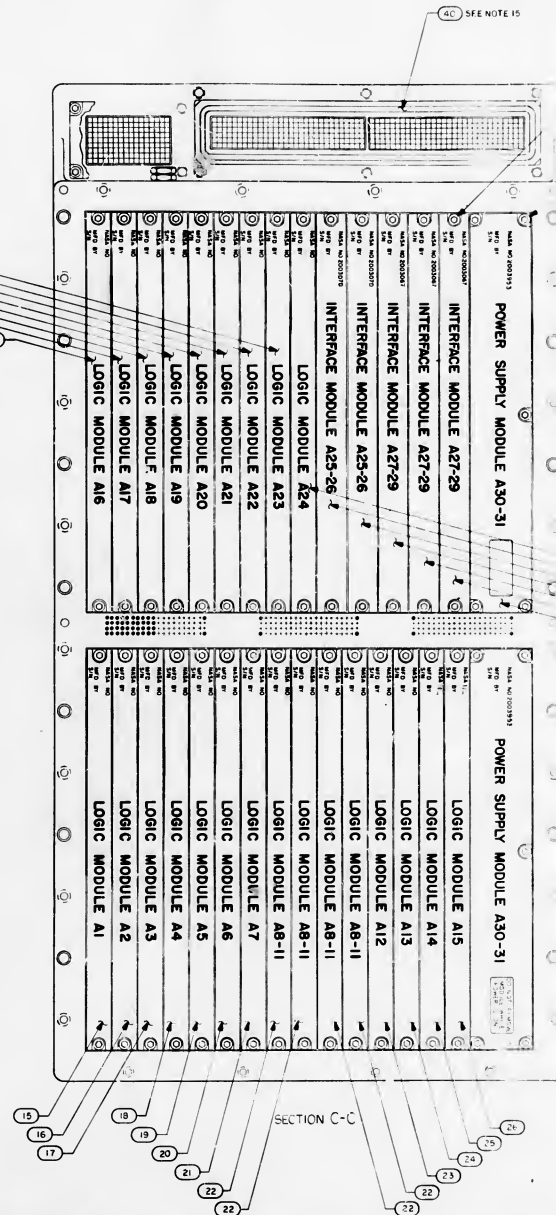


SECTION D-D

PACKAGING REFERENCE DRAWINGS:
1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

2003200

H



SECTION C-C

SEE NOTE 15

CHART A (SEE NOTE 30)

INTERPRET DRAWINGS IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2. HANTAMOUNTS DENOTE AGE, COLORPATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC

3. 3/16" SLOTTED C-CLIP, 1/8" HOLETS TO MODULES, 1/8" HOLETS TO METAL SURFACES AND TRAY MOUNTING SURFACES

4. ASSEMBLY FID NO.33 AND FID NO.63 TO FID NO.66 AND FID NO.72 OR FID NO.79 PER NID00204 TYPE XZ

5. BONDING FID NO.43 TO FID NO.1 OR FID NO.72 OR FID NO.79 PER NID00204 TYPE XZ

6. 1/8" HOLETS TO METAL SURFACES AND TRAY MOUNTING SURFACES

7. TORQUE FID NO.47 OR FID NO.74 TO 2/32" INCH POUNDS

8. FIDING IS REQUIRED TO SATISFY LSC GAGE 100-10001

9. 2/32" SEALING COMPOUND MIL-S-22477 GRADE H TO FID NO.53, FID NO.59 AND FID NO.44

10. OCCUPATED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF F250160 OR OF F250260

11. TORQUE FID NO.47 OR FID NO.74 TO 2/32" INCH POUNDS

12. TORQUE FID NO.46, 49, 50, 75 AND 68 TO 1/8" INCH POUNDS

13. TORQUE FID NO.53 TO BE 4/6 INCH POUNDS

14. TORQUE FID NO.44 AND FID NO.74 TO BE 137/157 INCH POUNDS

15. FID NO.40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY

16. 1/8" HOLETS TO METAL SURFACES AND TRAY MOUNTING SURFACES

17. FINISH SURFACE SHALL BE PER FID NO.43 TO FID NO.44 AND CONTRACT NO. PER NID00205

18. FINISH SURFACE SHALL BE PER FID NO.43 TO FID NO.44 AND CONTRACT NO. PER NID00205

19. ELECTRICAL BONDING REQUIREMENTS OF IEC NAA 000-01302-116 IF

20. IF THE FOLLOWING RESISTANCES TO BE MORE THAN 50 MILLIOHMS:

a. RESISTANCE BETWEEN FID NO.1 AND FID NO.6

b. IF THE DISTANCE BETWEEN FID NO.2 AND FID NO.6

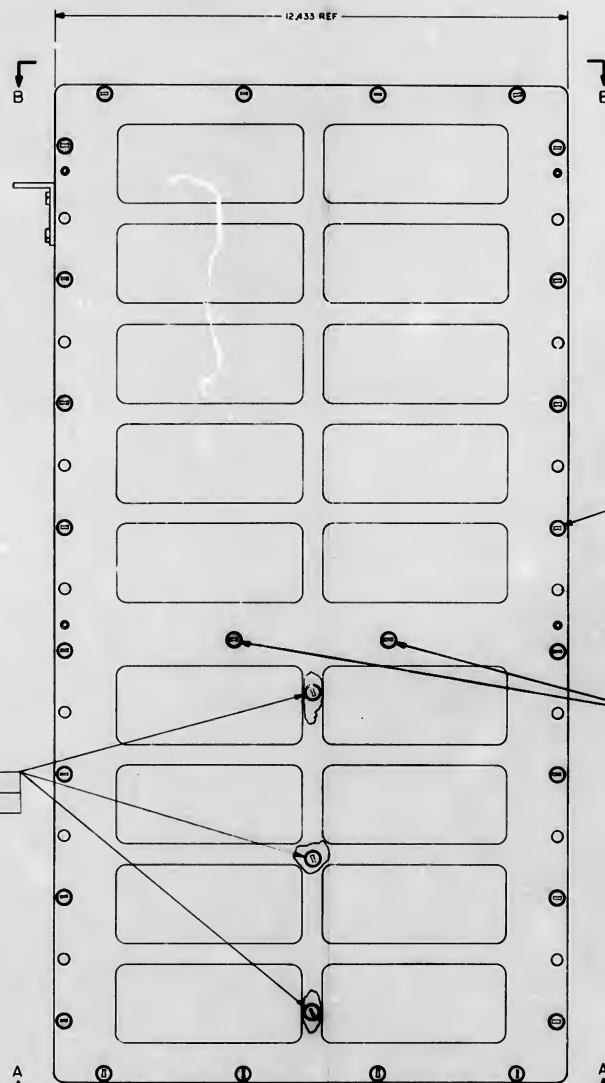
c. RESISTANCE BETWEEN FID NO.3 AND FID NO.4 OR BETWEEN FID NO.69 AND FID NO.70

19. LEAK TEST: PURGE AND FILL WITH 30 ± 0.15
PARTS NITROGEN. STORE AT ROOM AMBIENT FOR 24
HOURS. LEAK TEST PERFORMED BY VISUAL
MEASUREMENTS. MAKE UP STANDARD. TEMPERATURE
20. ± 0.5 °C. LEAKING TEST
21. BOND FINE NO.58 TO FIND NO. IN POSITION, SHOW,
22. REFINED. MODULES MUST NOT
23. BE RE-ALIGNED TO THE BOARD
24. WITHOUT REPEATING NODULE
25. SELECTION PROCEDURE FOR NODULE 10
26. THE VALUE OF CI TO BE DETERMINED AT ELECTRICAL
27. TEST AND SELECTED FROM APPROPRIATE CHART
28. WHEN THE VALUE OF CI IS 15 ° NO COMPONENT SHALL
29. BE USED
30. TO ENCAPSULATE AREA. SHOW AFTER SELECTION AND
31. INSULATION. USE OF NODULE 10 METHOD C OR F
32. USING PRIMER PER SCD 1012153
33. WELD PER NO.002005
34. INSULATION. WITH SMOOTH FACE OF FINE NO.39
35. IN CONTACT WITH SCREW HEAD
36. FINE NO.39,40,55 8.57 TO BE DISCARDED AND REPLACED
37. WITH FINE NO.39,40,55 ARE DISCARDED



28. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FINISH
NO. 66, OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED
29. KEEP ALL MATING THREADS OF SCREWS, TRAY AND MID-SPACER IF PERTS
FREE OF SILICONE COMPOUND
30. FOR FINISH NO. 15 THRU 35 LOGIC MODULES AT THRU A24 USE PART NO.
20C31-011 THRU 20C31-21-231 AND/OR 20C38-011 THRU 20C38-051-231
SEE CHART A
31. FOR TRAY A-1 WIRED ASSY USE EITHER 20C3092-C-41 OR
20C3092-01A OR 20C3092-06A

200320C



		REVISIONS			
DATE	USER	DESCRIPTION	BY	CHK	DATE
		REVISED PER TOR#42062	ATT	CHK	
B		REVISED PER TOR# 3086			
C		REVISED PER TOR# 3080			
D		REVISED PER TOR# 32553			
E		REVISED PER TOR# 3414			
F		REVISED PER TOR# 33597			
G		REVISED PER TOR# 33543			
H		REVISED PER TOR# 3426			
I		REVISED PER TOR# 3402			

[illegible][illegible]

PART NO.	VALUE
1065777-1	10
15	150
20	330
22	210
23	680
24	820
25	0

C1
SEE NOTES 2, 22, 23, 25

35 M4
SEE NOTE 24

SEE NOTE 24



SECTION G-G
SEE SHEET 1

SCALE 2/1

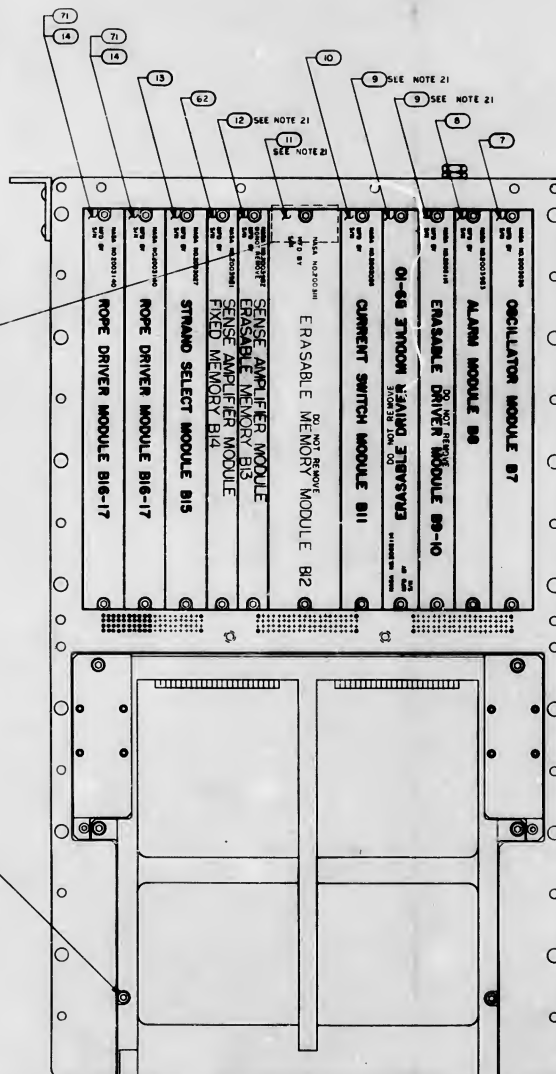
PACKAGING REFERENCE DRAWINGS:
1. AGC CONNECTOR COVER KIT 204399
2. AGC HANDLING FIXTURE ASSY 204282
3. AGC SHIPPING CONTAINER 106421

33. FOR ALARM MODULE B8 USE EITHER 2003983-01 OR 2003983-02
34. FOR ERASABLE DRIVER MODULE B9-10 USE EITHER 200314-01 OR 200314-02
35. FOR CURRENT SWITCH MODULE B11 USE EITHER 2003026-02 OR 2003026-03
36. FOR ERASABLE MEMORY MODULE B12 USE EITHER 2003011-01 OR 2003011-02
37. FOR SENSE AMPLIFIER MODULE ERASABLE MEMORY B13 USE EITHER 2003982-01 OR 2003982-02 OR 2003982-03
38. FOR STRAND SELECT MODULE B15 USE EITHER 2003027-02 OR 2003027-03

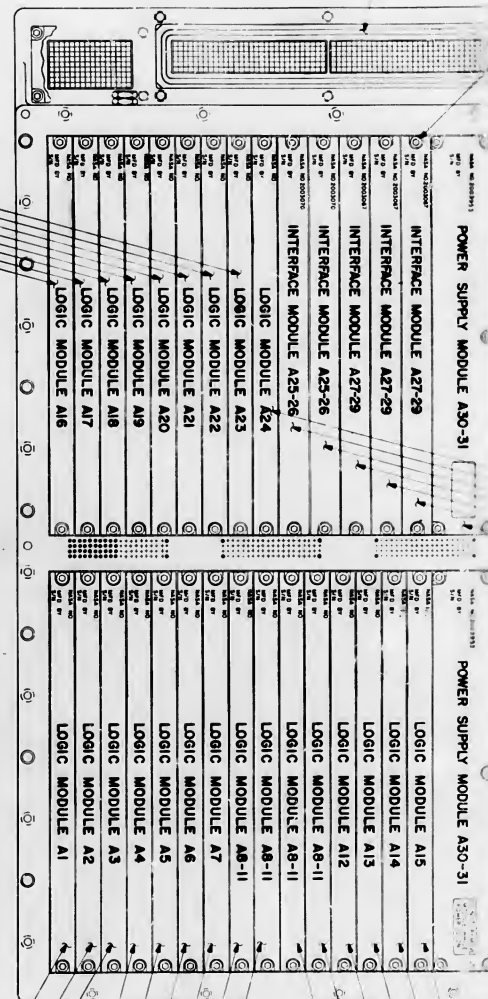
SECTION D-D

2003200

39. FOR INTERFACE MODULE A25-26 USE EITHER 2003070-02 OR 2003070-03
40. FOR INTERFACE MODULE A27-29 USE EITHER 2003067-03 OR 2003067-04
41. FOR ROPE DRIVER MODULE B16-17 USE EITHER 2003040-02 OR 2003040-03
42. FILL FEMALE INSULATORS OF B14 AND B15 CONNECTORS USING FIND NO. B1 PRIOR TO ASSEMBLY OF FIND NO. 82
43. SEAL EXPOSED HARDWARE AND CONNECTOR COMPUTER INTERFACE WITH .002 MIN. THICK COATING OF FIND NO. 82 COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED. CURE AT ROOM TEMP FOR 24 HOURS
44. BOND FIND NO. 84 ALONG EDGES TO FIND NO. 85 PER MD002004, TYPE 'X' PRIOR TO ASSEMBLY OF FIND NO. 83
45. SHIMS REQUIRED PRIOR TO ASSEMBLY OF FIND NO. 83 OR 73, SURFACE 'C' TO WITHIN .002 OF SURFACE 'D' USING FIND NO. 84, NOT TO INCLUDE .004 REF DIMENSION OF FIND NO. 84



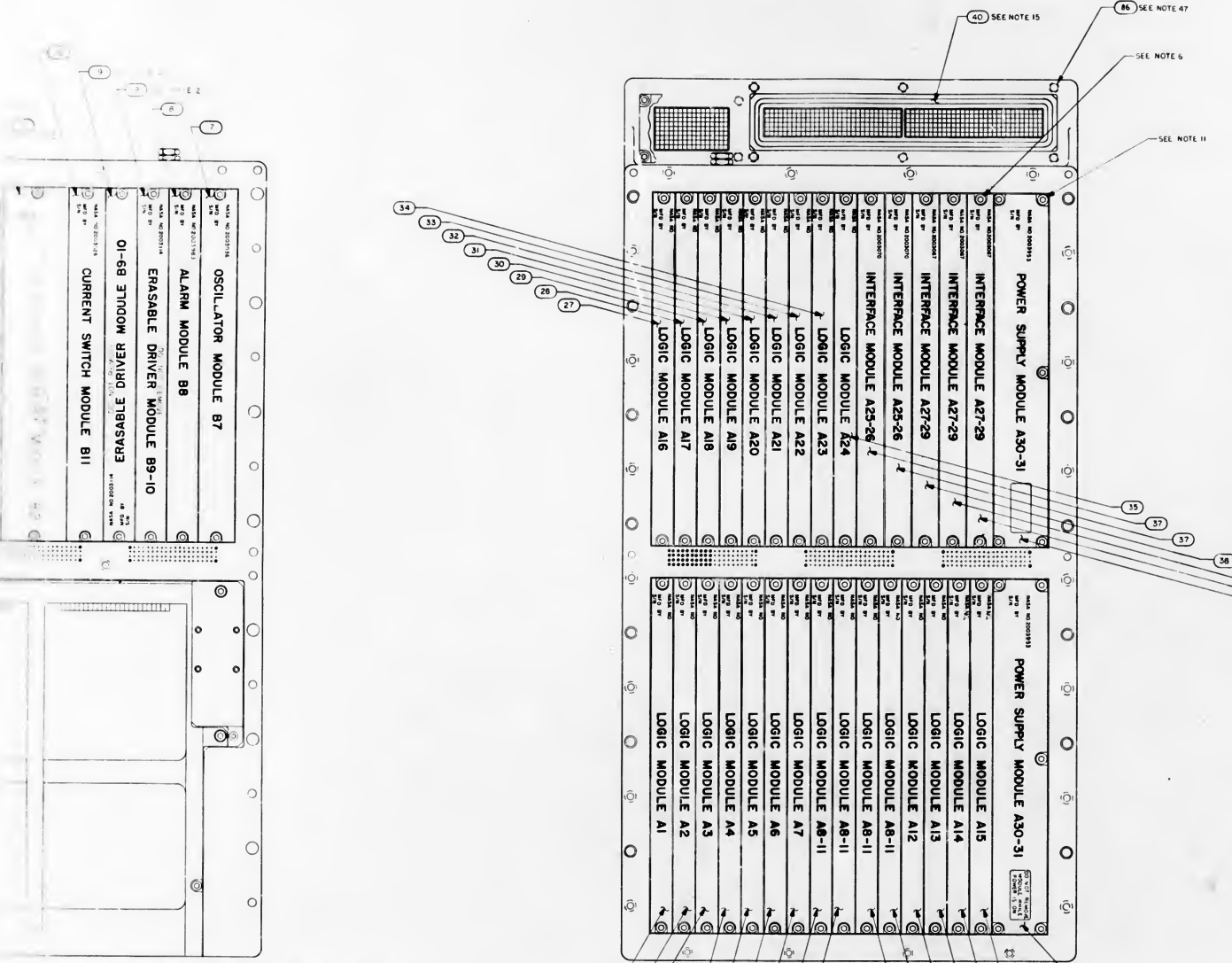
34
33
32
31
30
29
28
27



SECTION C-C

40 SEE NOTE 10

REV	DATE	DESCRIPTION	BY	CHK	DATE	APPROVED
A		REVISED PER TORH 3406A				
B		REVISED PER TORH 3406B				
C		REVISED PER TORH 3406C				
D		REVISED PER TORH 3406D				
E		REVISED PER TORH 3406E				
F		REVISED PER TORH 3406F				
G		REVISED PER TORH 3406G				
H		REVISED PER TORH 3406H				
I		REVISED PER TORH 3406I				



46. SHIM AS REQUIRED PRIOR TO ASSEMBLY OF FIND NO. 60/73 SURFACE C TO WITHIN .002" OF SURFACE B. USING FIND NO. 84.
47. FIND NO. 85 "THRU RE" TO BE USED AT ALL TIMES THAT THREADED HOLES ARE NOT IN USE. THIS INCLUDES SHIPPING. ALL SCREWS SHALL BE TORQUED SUFFICIENTLY TO SEAL THREADED HOLES EXCEPT FIND NO. 87 TO BE TORQUED 7.0 TO 8.5 INCH/POUNDS.

39. INTERFACE MODULE A25-26. USE EITHER 2003670-021 OR 2003670-031.
40. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
41. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
42. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
43. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
44. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
45. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
46. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
47. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
48. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
49. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
50. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
51. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
52. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
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55. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
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61. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
62. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
63. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
64. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
65. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
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67. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
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70. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
71. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
72. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
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76. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
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79. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
80. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
81. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
82. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
83. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
84. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
85. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
86. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
87. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
88. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
89. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
90. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
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92. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
93. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
94. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
95. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
96. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
97. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
98. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
99. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.
100. INTERFACE MODULE A27-29. USE EITHER 2003670-031 OR 2003670-041.

REV		PART OR SUBSTITUTION NO.		HOMELAND USE OR SUBSTITUTION		DATE
				LIST OF MATERIALS		
UNITED STATES SPECIFIED DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED RESISTOR VALUES ARE IN OHMS ELECTRICITY IN OHMS FRACTIONS DECIMALS ANGLES AND PERCENTS DO NOT PUT TYPED DIMENSIONS IN PARENTHESES				MANHATTAN SPACECRAFT CENTER INSTRUMENTATION LAB CONSTRUCTION PLANT ELECTRICAL ELECTRONIC MECHANICAL METALWORK WOODWORK PAINTING PLUMBING ROOFING STEEL ERECTION THERMAL INSULATION WELDING		
				COMPUTER ASSEMBLY		
DATE		BY		CHECKED		DATE
10/1/68		J. H. HARRIS		J. H. HARRIS		10/1/68
NEXT ASSEMBLY		USED ON		DATE		DATE
APPLICATION				802330		2003220

5

[illegible][illegible]

CI		
PART NO.	VALUE	UNIT
1066777-1	10	IC
115	100	Ω
118	330	Ω
120	470	Ω
122	680	Ω
124	820	Ω
SEE NOTE 23		

CI
SEE NOTES 2, 22, 23
A25

1.035 MIN
SEE NOTE 24

SEE NOTE 24

5 REF

83 SEE NOTE 46

78 REF

6 REF

1 REF

72 REF

79 REF

SEE NOTES
12 & 28

64 SEE NOTES
44 & 45

004 REF
SEE NOTE 45

8 REF

73 REF

84 REF

SCALE 2/1

SECTION G-G
SEE SHEET 1

PACKAGING REFERENCE DRAWINGS:
1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

33. FOR ALARM MODULE B7 USE EITHER 2003983-01 OR 2003983-02
34. FOR ERASABLE DRIVER MODULE B9-10 USE EITHER 2003984-01 OR 2003984-02
35. FOR CURRENT SWITCH MODULE B11 USE EITHER 2003026-02 OR 2003026-03
36. FOR ERASABLE MEMORY MODULE B12 USE EITHER 2003981-01 OR 2003981-02
37. FOR SENSE AMPLIFIER MODULE, ERASABLE MEMORY B13 USE EITHER 2003982-01 OR 2003982-02 OR 2003982-03
38. FOR STRAND SELECT MODULE B15 USE EITHER 2003027-02 OR 2003027-03

SECTION D-D

2003200

K

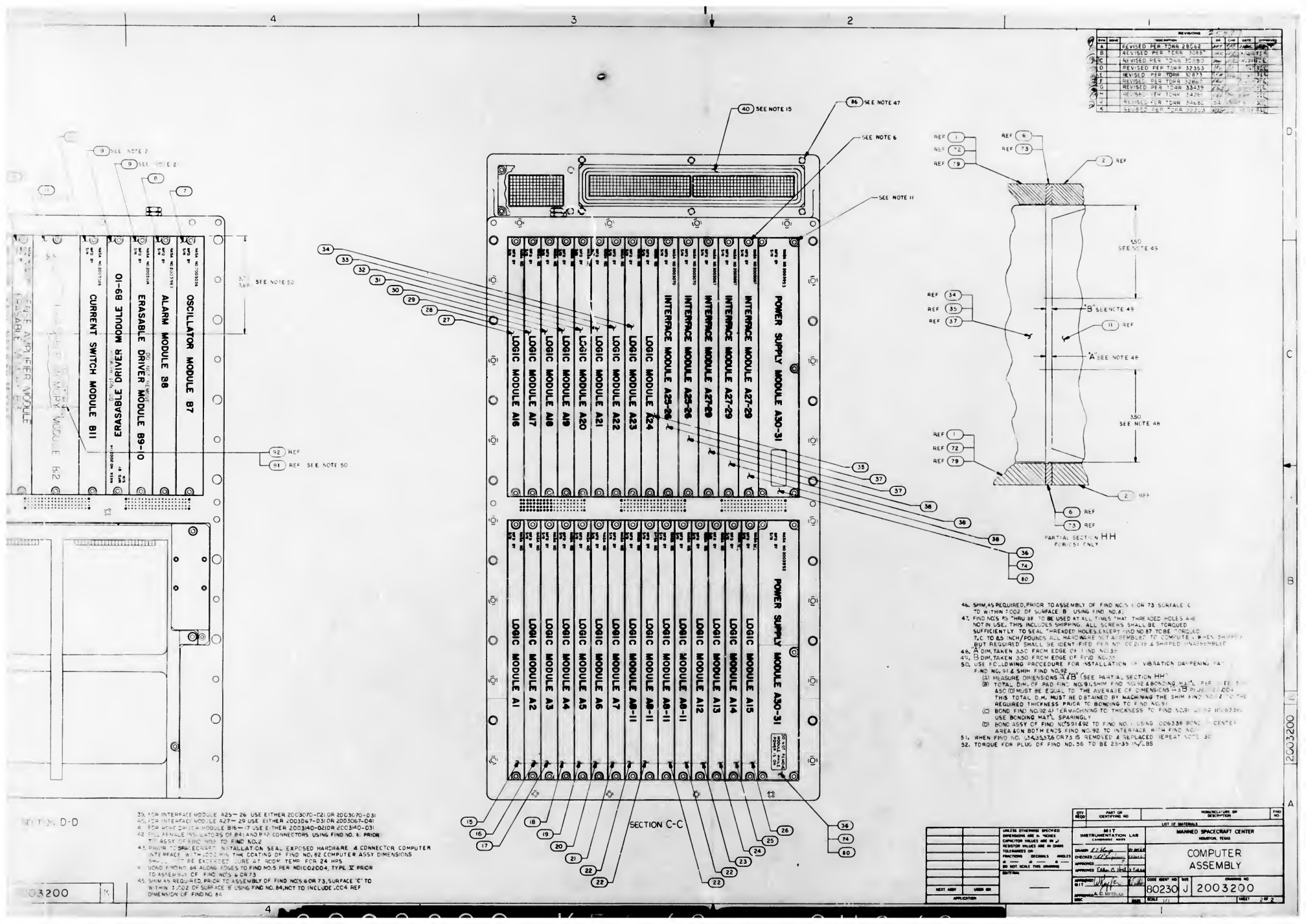
39. FOR INTERFACE MODULE A25-26 USE EITHER 2003070-02 OR 2003070-03
40. FOR INTERFACE MODULE A27-29 USE EITHER 2003067-03 OR 2003067-04
41. FOR ROPE DRIVER MODULE B16-17 USE EITHER 2003040-02 OR 2003040-03
42. FILL FEMALE INSULATORS OF B41 AND B42 CONNECTORS USING FIND NO. B1 PRIOR TO ASSY OF FIND NOS TO FIND NOS
43. PRIOR TO SPACECRAFT INSTALLATION SEAL EXPOSED HARDWARE & CONNECTOR COMPUTER INTERFACE WITH .002 MIN THK COATING OF FIND NO. 82 COMPUTER ASSY DIMENSIONS SHALL NOT BE EXCEEDED CURE AT ROOM TEMP FOR 24 HRS
44. BOND FIND NO. B4 ALONG EDGES TO FIND NOS PER MDO02004, TYPE 'X' PRIOR TO ASSEMBLY OF FIND NOS & DR 73
45. SHIP AS REQUIRED PRIOR TO ASSEMBLY OF FIND NOS & DR 73, SURFACE 'C' TO WITHIN .002 OF SURFACE 'B' USING FIND NO. B4, NOT TO INCLUDE .004 REF DIMENSION OF FIND NO. B4

SECTION C-C

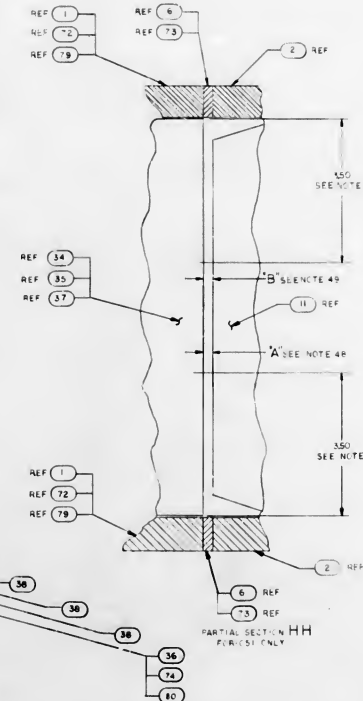
POWER SUPPLY MODULE A30-31

POWER SUPPLY MODULE A30-31

41 SEE NOTE 15



REV	DATE	DESCRIPTION	BY	CHKD	APPD
A	10/1/68	REVISED PER TORR 28062	WJ	WJ	WJ
B	10/1/68	REVISED PER TORR 10881	WJ	WJ	WJ
C	10/1/68	REVISED PER TORR 10780	WJ	WJ	WJ
D	10/1/68	REVISED PER TORR 32353	WJ	WJ	WJ
E	10/1/68	REVISED PER TORR 32873	WJ	WJ	WJ
F	10/1/68	REVISED PER TORR 33866	WJ	WJ	WJ
G	10/1/68	REVISED PER TORR 33439	WJ	WJ	WJ
H	10/1/68	REVISED PER TORR 34261	WJ	WJ	WJ
I	10/1/68	REVISED PER TORR 34880	WJ	WJ	WJ
J	10/1/68	REVISED PER TORR 35000	WJ	WJ	WJ



46. SHIM AS REQUIRED PRIOR TO ASSEMBLY OF FIND NOS. 1-16 ON SURFACE C TO WITHIN .002 OF SURFACE B USING FIND NO. 8.
47. FIND NOS. 17-32 TO BE USED AT ALL TIMES THAT THERE ARE HOLES ARE NOT IN USE. THIS INCLUDES SHIPPING. ALL SHIMS SHALL BE TORQUED SUFFICIENTLY TO SEAL "HOLE" HOLES EXCEPT FIND NO. 87 TO BE TORQUED 7.0 TO 8.0 INCH POUNDS. ALL HOLE HOLES NOT ASSEMBLED TO COMPUTER WHEN SHIPPED BUT REQUIRED SHALL BE IDENTIFIED BY A NOT IDENTIFIED A SHIPPED UNASSEMBLED.
48. A DIM TAKEN .550 FROM EDGE OF FIND NO. 32.
49. B DIM TAKEN .550 FROM EDGE OF FIND NO. 32.
50. USE FOLLOWING PROCEDURE FOR INSTALLATION OF VIBRATION DAMPENING PADS:
- FIND NO. 91 & SHIM FIND NO. 92
- (1) MEASURE DIMENSIONS A, B, C (SEE PARTIAL SECTION HH)
- (2) TOTAL DIM. OF PAD FIND NO. 91, SHIM FIND NO. 92 & BONDING MAT. PER FIG. 5-10.50 (D) MUST BE EQUAL TO THE AVERAGE OF DIMENSIONS A, B, C PLUS .001.
- THIS TOTAL DIM. MUST BE OBTAINED BY MACHINING THE SHIM FIND NO. 2 TO THE REQUIRED THICKNESS PRIOR TO BONDING TO FIND NO. 91.
- (3) BOND FIND NO. 92 AFTER MACHINING TO THICKNESS TO FIND NO. 91 USING 006338 BOND AREA ON BOTH ENDS FIND NO. 92 TO INTERFACE WITH FIND NO. 91.
51. WHEN FIND NO. 144326 CRTS IS REMOVED & REPLACED REPEAT NOTE 50.
52. TORQUE FOR PLUG OF FIND NO. 56 TO BE 25-35 INCH LBS.

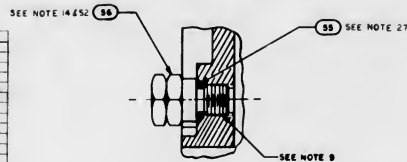
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B	10/1/68	REVISED PER TORR 10881	WJ	WJ	WJ
C	10/1/68	REVISED PER TORR 10780	WJ	WJ	WJ
D	10/1/68	REVISED PER TORR 32353	WJ	WJ	WJ
E	10/1/68	REVISED PER TORR 32873	WJ	WJ	WJ
F	10/1/68	REVISED PER TORR 33866	WJ	WJ	WJ
G	10/1/68	REVISED PER TORR 33439	WJ	WJ	WJ
H	10/1/68	REVISED PER TORR 34261	WJ	WJ	WJ
I	10/1/68	REVISED PER TORR 34880	WJ	WJ	WJ
J	10/1/68	REVISED PER TORR 35000	WJ	WJ	WJ

REV	DATE	DESCRIPTION	BY	CHKD	APPD
A	10/1/68	REVISED PER TORR 28062	WJ	WJ	WJ
B	10/1/68	REVISED PER TORR 10881	WJ	WJ	WJ
C	10/1/68	REVISED PER TORR 10780	WJ	WJ	WJ
D	10/1/68	REVISED PER TORR 32353	WJ	WJ	WJ
E	10/1/68	REVISED PER TORR 32873	WJ	WJ	WJ
F	10/1/68	REVISED PER TORR 33866	WJ	WJ	WJ
G	10/1/68	REVISED PER TORR 33439	WJ	WJ	WJ
H	10/1/68	REVISED PER TORR 34261	WJ	WJ	WJ
I	10/1/68	REVISED PER TORR 34880	WJ	WJ	WJ
J	10/1/68	REVISED PER TORR 35000	WJ	WJ	WJ

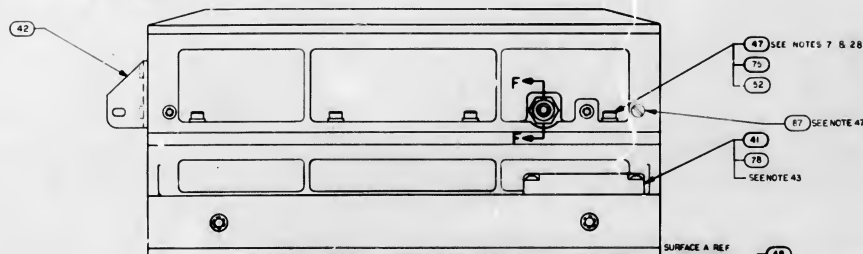
39. 12V INTERFACE MODULE A25-26 USE EITHER 2003070-02 OR 2003070-03
40. 12V INTERFACE MODULE A27-28 USE EITHER 2003070-03 OR 2003070-04
41. 12V INTERFACE MODULE A29-30 USE EITHER 2003070-03 OR 2003070-04
42. STILL INTERFACE MODULES OF 84 AND 87 CONNECTORS USING FIND NO. 81 PRIOR TO ASSEMBLY OF FIND NO. 82
43. PRIOR TO "SPRUE" INSTALLATION SEAL EXPOSED HARDWARE & CONNECTOR COMPUTER INTERFACE WITH .002 MIN THK COATING OF FIND NO. 82 COMPUTER ASSY DIMENSIONS
44. BOND FIND NO. 84 ALONG EDGES TO FIND NO. 82 PER DIM CO2004, TYPE "X" PRIOR TO ASSEMBLY OF FIND NOS. 6 OR 73
45. SHIM AS REQUIRED PRIOR TO ASSEMBLY OF FIND NOS. 6 OR 73, SURFACE "C" TO WITHIN .002 OF SURFACE "B" USING FIND NO. 84, NOT TO INCLUDE .004 REF DIMENSION OF FIND NO. 82

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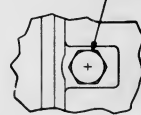
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200320-014	200320-014	LOGIC MODULE
200320-015	200320-015	LOGIC MODULE
200320-016	200320-016	LOGIC MODULE
200320-017	200320-017	LOGIC MODULE
200320-018	200320-018	LOGIC MODULE
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200320-020	200320-020	LOGIC MODULE
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200320-024	200320-024	LOGIC MODULE
200320-025	200320-025	LOGIC MODULE
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200320-027	200320-027	LOGIC MODULE
200320-028	200320-028	LOGIC MODULE
200320-029	200320-029	LOGIC MODULE
200320-030	200320-030	LOGIC MODULE
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200320-032	200320-032	LOGIC MODULE
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200320-086	200320-086	LOGIC MODULE
200320-087	200320-087	LOGIC MODULE
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200320-100	200320-100	LOGIC MODULE



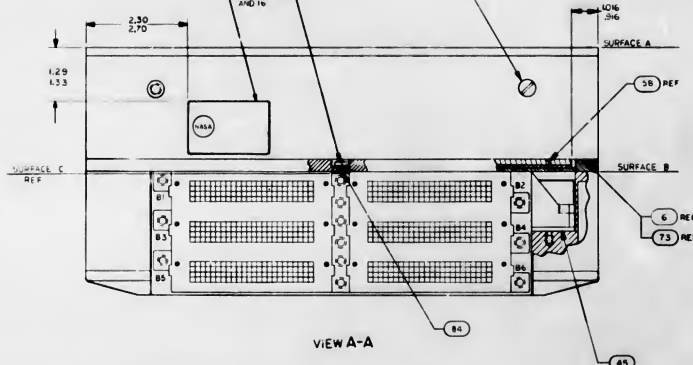
PARTIAL SECTION F F
SCALE: 2/1



VIEW B-B



VIEW E-E

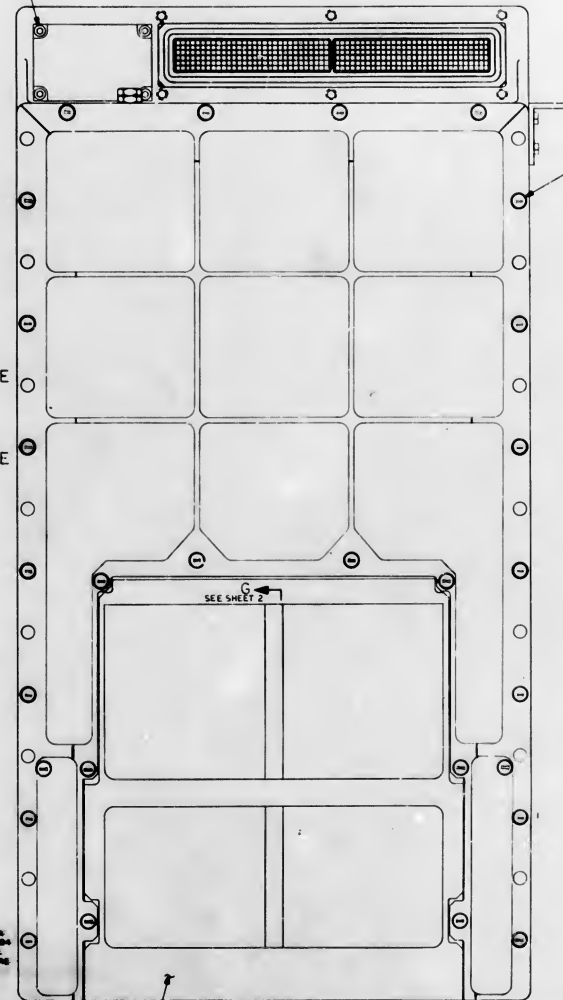


VIEW A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70727.
2. PHANTOM LINES DENOTE A/C COLOR PLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. ADD SILICONE COMPOUND 1004879 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES.
4. ASSEMBLE FIND NO. 53 AND FIND NO. 63 TO FIND NO. 6 OR FIND NO. 73 AND FIND NO. 73 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 1 OR FIND NO. 72 OR FIND NO. 79.
5. BOND FIND NO. 43 TO FIND NO. 1 OR FIND NO. 72 OR FIND NO. 79 PER N1002219, WEI HOD II.
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/16 INCH POUNDS.
7. TORQUE FIND NO. 47 OR FIND NO. 79 TO 28/32 INCH POUNDS.
8. TORQUE FIND NO. 43 TO FIND NO. 1 OR FIND NO. 72 OR FIND NO. 79 PER N1002219, WEI HOD II.
9. SUPPLY SEALING COMPOUND PER 1000963-004 TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44.
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS206005 OR PS206007.
11. TORQUE FOR FIND NO. 36 MOUNTING SCREWS TO BE 1/2 INCH POUNDS.
12. TORQUE FOR FIND NO. 46, 48, 50, 74 AND 88 TO BE 1/2 INCH POUNDS.
13. TORQUE FOR FIND NO. 55 TO BE 1/2 INCH POUNDS.
14. TORQUE FOR FIND NO. 44 AND FIND NO. 56 TO BE 137/157 INCH POUNDS.
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
16. MAIN COMPUTER ASSEMBLY 37 AND RELATED PARTS, APPLICABLE DATA NO., SERIAL NO. AND CONTRACT NO. PER N1004260 AND SERIALIZE PER N1004263.
17. MAIN COMPUTER ASSEMBLY 37 AND RELATED PARTS, APPLICABLE DATA NO., SERIAL NO. AND CONTRACT NO. PER N1004260 AND SERIALIZE PER N1004263.
18. MAIN COMPUTER ASSEMBLY 37 AND RELATED PARTS, APPLICABLE DATA NO., SERIAL NO. AND CONTRACT NO. PER N1004260 AND SERIALIZE PER N1004263.
19. MAIN COMPUTER ASSEMBLY 37 AND RELATED PARTS, APPLICABLE DATA NO., SERIAL NO. AND CONTRACT NO. PER N1004260 AND SERIALIZE PER N1004263.
20. BOND FIND NO. 58 TO FIND NO. 6 OR FIND NO. 73 IN POSITION SHOWN IN THIS DRAWING.
21. REFERENCE TO FIND NO. 58 SHALL NOT BE USED WITHOUT REPEATING NORMAL SELECTION PROCEDURE PER NOTE 10.
22. MIN. VALUE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART.
23. WHEN THE VALUE OF C1 IS 10° NO COMPONENT SHALL BE USED.
24. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION. OF C1 USING N10002099 METHOD C OR D USING PRIMER PER 500 100519.
25. WELD PER N10002099.
26. ASSEMBLY HANDSHAKE WITH SHOWN FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD.
27. FIND NO. 39, 40, 55, 56, 57 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED.

49 SEE NOTE 12 & 43
51



SEE SHEET 2
5
SEE NOTE 42



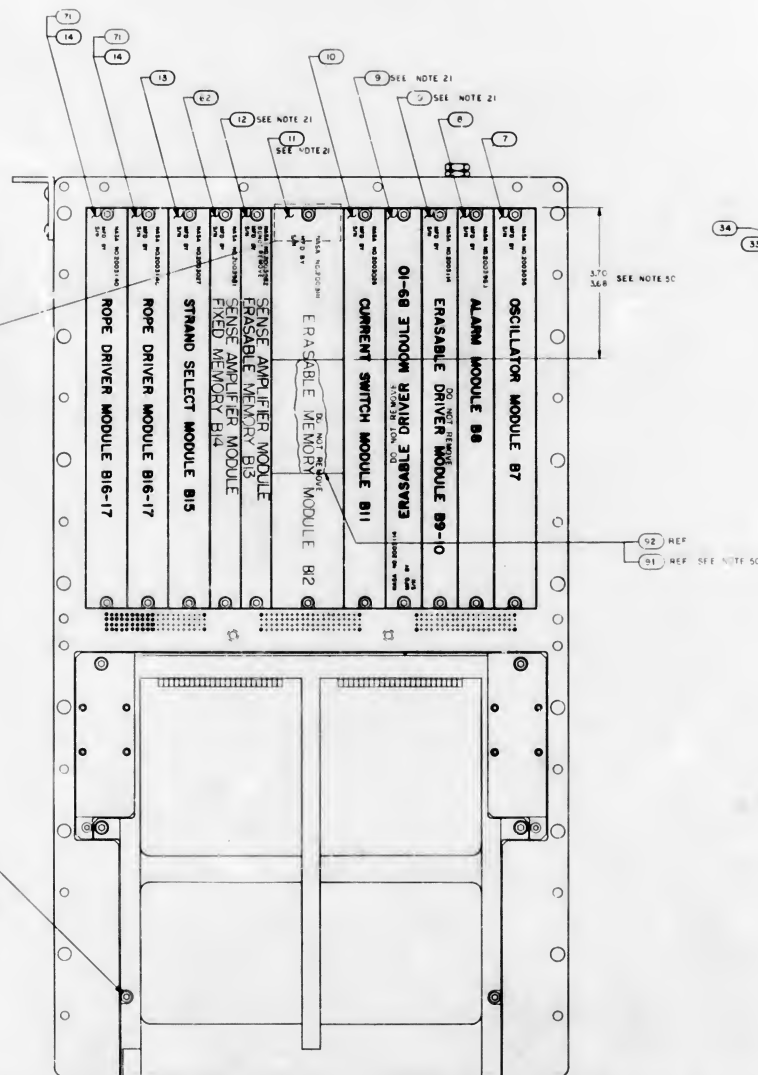
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C		REVISED PER TDR 3-90	DR	CHK	20-102	3
D		REVISED PER TDR 32355	DR	CHK	20-102	4
E		REVISED PER TDR 32355	DR	CHK	20-102	5
F		REVISED PER TDR 32355	DR	CHK	20-102	6
G		REVISED PER TDR 32355	DR	CHK	20-102	7
H		REVISED PER TDR 32355	DR	CHK	20-102	8
I		REVISED PER TDR 32355	DR	CHK	20-102	9
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L		REVISED PER TDR 32355	DR	CHK	20-102	12

[illegible][illegible]


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53. FOR ALARM MODULE BR USE EITHER 2003983-011 OR 2003983-021
54. FOR ERASABLE DRIVER MODULE BR-01 USE EITHER 2003014-011 OR 2003014-021
55. FOR CURRENT SWITCH MODULE BR11 USE EITHER 2003026-011 OR 2003026-031
56. FOR ERASABLE MEMORY MODULE BR12 USE EITHER 2003011-011 OR 2003011-021
57. FOR SENSE AMPLIFIER MODULE ERASABLE MEMORY BR13 USE EITHER 2003982-011
    OR 2003982-021 OR 2003982-031
58. FOR STRAND SELECT MODULE BR15 USE EITHER 2003027-021 OR 2003027-031

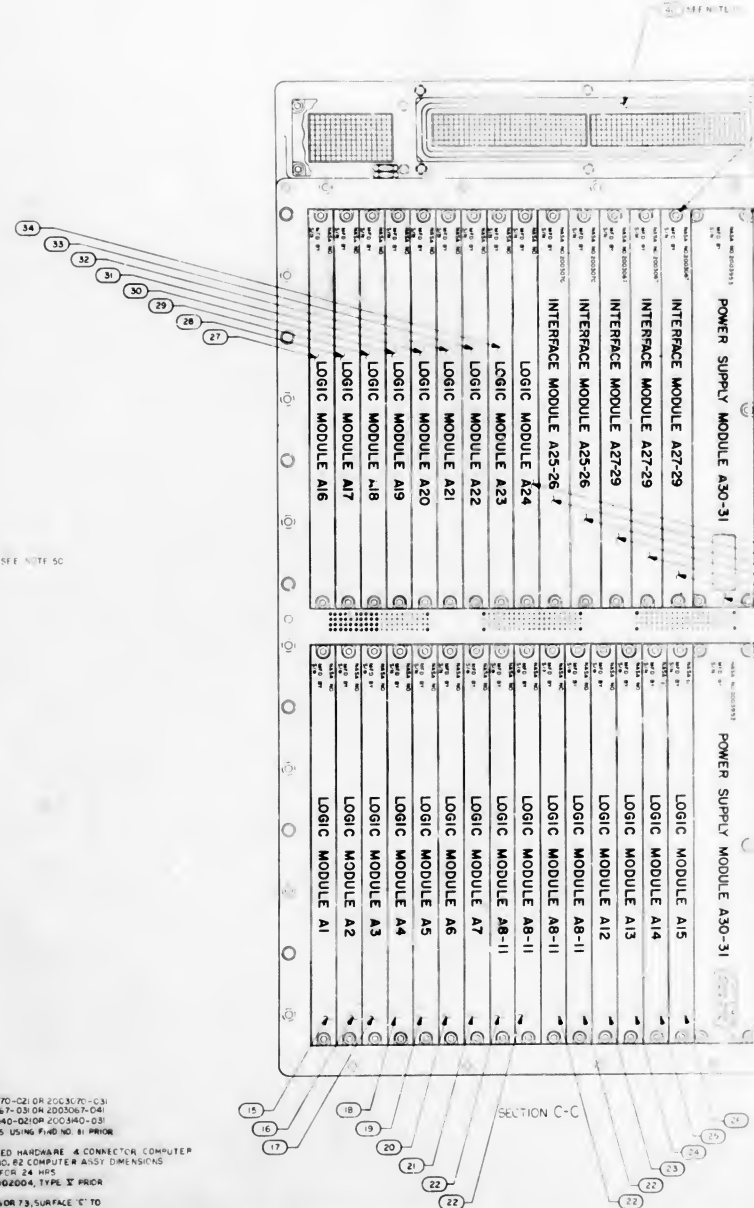
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SECTION D-D

2003200

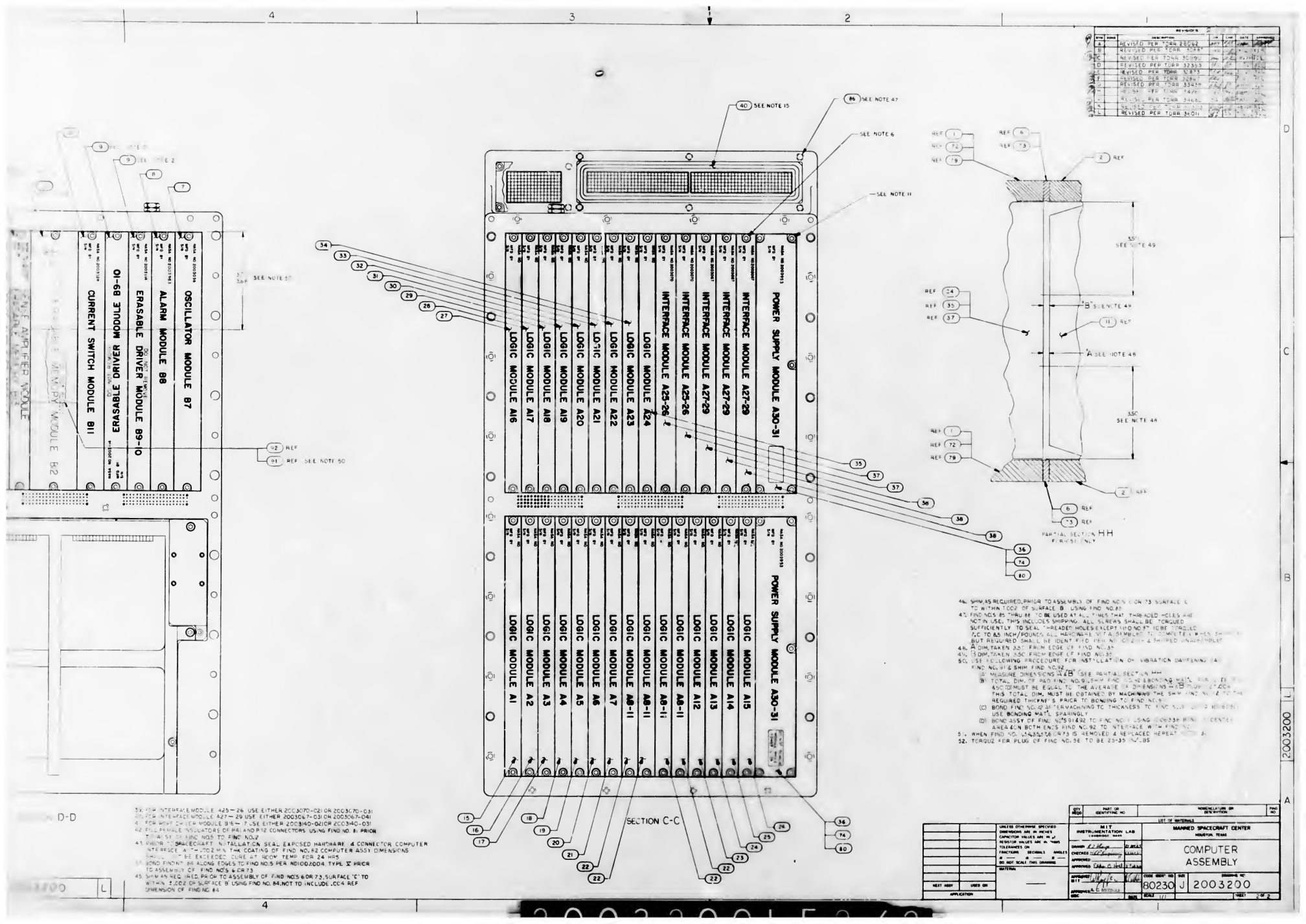
19. TOP INTERFACE MODULE A25-26 USE EITHER 20C3070-02 OR 20C3070-03
20. FOR INTERFACE MODULE A27-29 USE EITHER 20C3070-03 OR 20C3067-04
21. FOR ROPE DRIVE MODULE B16-17 USE EITHER 20C340-02 OR 20C340-03
22. FILL PLEATE INSULATORS OF RIG-7 AND RIG-8 CONNECTORS USING P/N 601.81 PRIOR TO ASSEMBLING NOS TO FIND NOS
23. PRIOR TO INTERFACE INSTALLATION SEE EXPOSED HARDWARE & CONNECTOR COMPUTER INTERFACER WITH .002 IN COAT COATING OF FIND NOS. RE COMPUTER ASSY DIMENSIONS SHALL NOT EXCEED COATING .002 IN ROOM TEMP
24. BOND INSIDE 601.81 ALONG EDGES TO FIND NOS. PART NID60204, TYPE 1 PRIOR TO ASSEMBLY OF FIND NOS & GR73
25. DIMS AS REQUIRED PRIOR TO ASSEMBLY OF FIND NOS & GR73 PRIOR TO WELDING TO INTERIOR FLOOR OF SURFACE USING FIND NOS. 601.81 NOT TO INCLUDE .004 REF. THICKNESS OF FIND NOS. 84



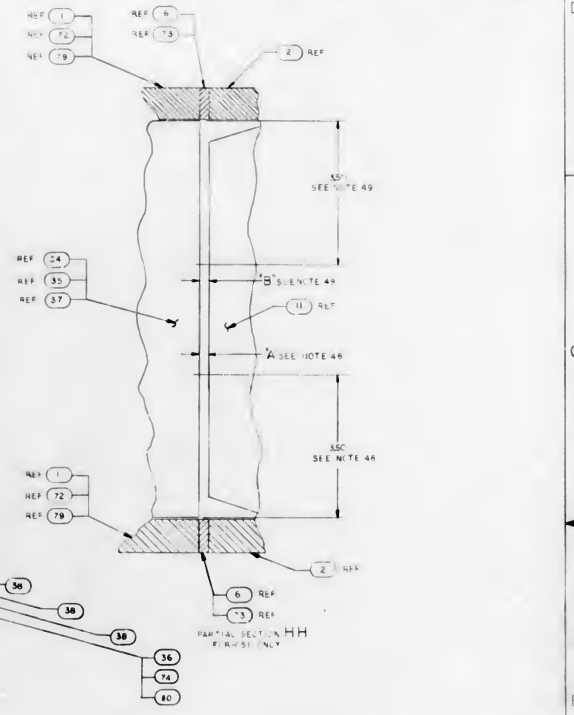
/SECTION C-C

POWER SUPPLY MODULE A30-31

POWER SUPPLY MODULE A30-3



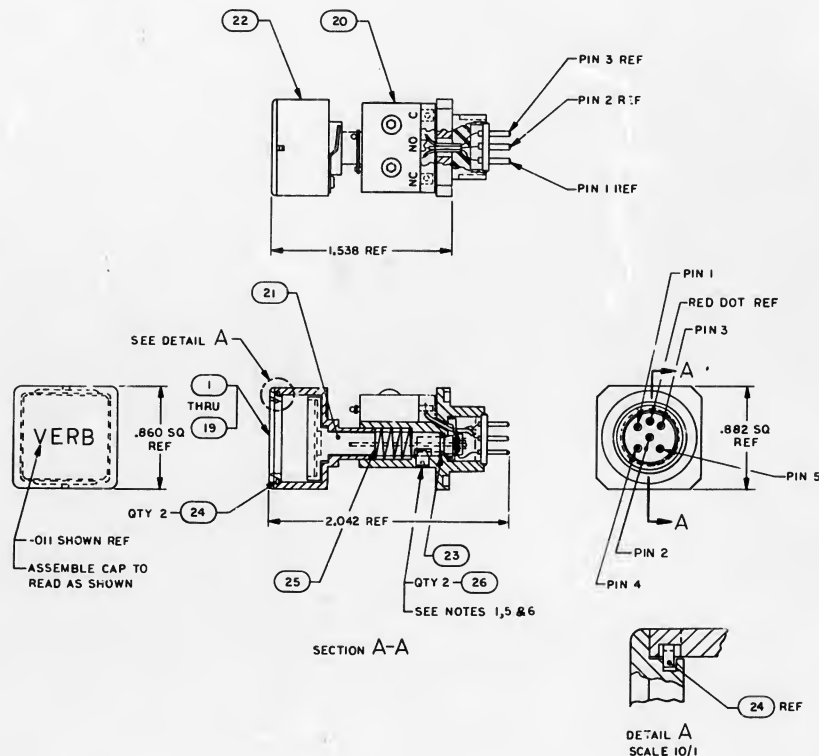
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60	10/1/68	REVISED PER TORR 2802



- 46. SHIM AS REQUIRED PRIOR TO ASSEMBLY OF FIND NO. 1 ON 73 SURFACE C TO WITHIN TOLERANCE OF SURFACE B USING FIND NO. 81.
- 47. FIND NO. 81 THRU-HOLE TO BE USED AT ALL TIMES THAT THRU-HOLE IS NOT IN USE. THIS INCLUDES SHIPPING. ALL SURFACES SHALL BE TORQUED SUFFICIENTLY TO SEAL THRU-HOLE. HOLE LEFT OPEN MUST BE PROTECTED TO PREVENT DAMAGE TO SURFACE. HOLE MUST BE RE-OPENED BY SHIMMING AND RE-SEALING.
- 48. DIMENSIONS ARE FROM EDGE OF FIND NO. 81.
- 49. DIMENSIONS ARE FROM EDGE OF FIND NO. 81.
- 50. USE FOLLOWING PROCEDURE FOR INSTALLATION OF VIBRATION DAMPENING (A) FIND NO. 81 SHIM FIND NO. 81.
- 51. MEASURE DIMENSIONS (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (AA) (AB) (AC) (AD) (AE) (AF) (AG) (AH) (AI) (AJ) (AK) (AL) (AM) (AN) (AO) (AP) (AQ) (AR) (AS) (AT) (AU) (AV) (AW) (AX) (AY) (AZ) (BA) (BB) (BC) (BD) (BE) (BF) (BG) (BH) (BI) (BJ) (BK) (BL) (BM) (BN) (BO) (BP) (BQ) (BR) (BS) (BT) (BU) (BV) (BW) (BX) (BY) (BZ) (CA) (CB) (CC) (CD) (CE) (CF) (CG) (CH) (CI) (CJ) (CK) (CL) (CM) (CN) (CO) (CP) (CQ) (CR) (CS) (CT) (CU) (CV) (CW) (CX) (CY) (CZ) (DA) (DB) (DC) (DD) (DE) (DF) (DG) (DH) (DI) (DJ) (DK) (DL) (DM) (DN) (DO) (DP) (DQ) (DR) (DS) (DT) (DU) (DV) (DW) (DX) (DY) (DZ) (EA) (EB) (EC) (ED) (EE) (EF) (EG) (EH) (EI) (EJ) (EK) (EL) (EM) (EN) (EO) (EP) (EQ) (ER) (ES) (ET) (EU) (EV) (EW) (EX) (EY) (EZ) (FA) (FB) (FC) (FD) (FE) (FF) (FG) (FH) (FI) (FJ) (FK) (FL) (FM) (FN) (FO) (FP) (FQ) (FR) (FS) (FT) (FU) (FV) (FW) (FX) (FY) (FZ) (GA) (GB) (GC) (GD) (GE) (GF) (GG) (GH) (GI) (GJ) (GK) (GL) (GM) (GN) (GO) (GP) (GQ) (GR) (GS) (GT) (GU) (GV) (GW) (GX) (GY) (GZ) (HA) (HB) (HC) (HD) (HE) (HF) (HG) (HH) (HI) (HJ) (HK) (HL) (HM) (HN) (HO) (HP) (HQ) (HR) (HS) (HT) (HU) (HV) (HW) (HX) (HY) (HZ) (IA) (IB) (IC) (ID) (IE) (IF) (IG) (IH) (II) (IJ) (IK) (IL) (IM) (IN) (IO) (IP) (IQ) (IR) (IS) (IT) (IU) (IV) (IW) (IX) (IY) (IZ) (JA) (JB) (JC) (JD) (JE) (JF) (JG) (JH) (JI) (JJ) (JK) (JL) (JM) (JN) (JO) (JP) (JQ) (JR) (JS) (JT) (JU) (JV) (JW) (JX) (JY) (JZ) (KA) (KB) (KC) (KD) (KE) (KF) (KG) (KH) (KI) (KJ) (KK) (KL) (KM) (KN) (KO) (KP) (KQ) (KR) (KS) (KT) (KU) (KV) (KW) (KX) (KY) (KZ) (LA) (LB) (LC) (LD) (LE) (LF) (LG) (LH) (LI) (LJ) (LK) (LL) (LM) (LN) (LO) (LP) (LQ) (LR) (LS) (LT) (LU) (LV) (LW) (LX) (LY) (LZ) (MA) (MB) (MC) (MD) (ME) (MF) (MG) (MH) (MI) (MJ) (MK) (ML) (MM) (MN) (MO) (MP) (MQ) (MR) (MS) (MT) (MU) (MV) (MW) (MX) (MY) (MZ) (NA) (NB) (NC) (ND) (NE) (NF) (NG) (NH) (NI) (NJ) (NK) (NL) (NM) (NN) (NO) (NP) (NQ) (NR) (NS) (NT) (NU) (NV) (NW) (NX) (NY) (NZ) (OA) (OB) (OC) (OD) (OE) (OF) (OG) (OH) (OI) (OJ) (OK) (OL) (OM) (ON) (OO) (OP) (OQ) (OR) (OS) (OT) (OU) (OV) (OW) (OX) (OY) (OZ) (PA) (PB) (PC) (PD) (PE) (PF) (PG) (PH) (PI) (PJ) (PK) (PL) (PM) (PN) (PO) (PP) (PQ) (PR) (PS) (PT) (PU) (PV) (PW) (PX) (PY) (PZ) (QA) (QB) (QC) (QD) (QE) (QF) (QG) (QH) (QI) (QJ) (QK) (QL) (QM) (QN) (QO) (QP) (QQ) (QR) (QS) (QT) (QU) (QV) (QW) (QX) (QY) (QZ) (RA) (RB) (RC) (RD) (RE) (RF) (RG) (RH) (RI) (RJ) (RK) (RL) (RM) (RN) (RO) (RP) (RQ) (RR) (RS) (RT) (RU) (RV) (RW) (RX) (RY) (RZ) (SA) (SB) (SC) (SD) (SE) (SF) (SG) (SH) (SI) (SJ) (SK) (SL) (SM) (SN) (SO) (SP) (SQ) (SR) (SS) (ST) (SU) (SV) (SW) (SX) (SY) (SZ) (TA) (TB) (TC) (TD) (TE) (TF) (TG) (TH) (TI) (TJ) (TK) (TL) (TM) (TN) (TO) (TP) (TQ) (TR) (TS) (TT) (TU) (TV) (TW) (TX) (TY) (TZ) (UA) (UB) (UC) (UD) (UE) (UF) (UG) (UH) (UI) (UJ) (UK) (UL) (UM) (UN) (UO) (UP) (UQ) (UR) (US) (UT) (UU) (UV) (UW) (UX) (UY) (UZ) (VA) (VB) (VC) (VD) (VE) (VF) (VG) (VH) (VI) (VJ) (VK) (VL) (VM) (VN) (VO) (VP) (VQ) (VR) (VS) (VT) (VU) (VV) (VW) (VX) (VY) (VZ) (WA) (WB) (WC) (WD) (WE) (WF) (WG) (WH) (WI) (WJ) (WK) (WL) (WM) (WN) (WO) (WP) (WQ) (WR) (WS) (WT) (WU) (WV) (WW) (WX) (WY) (WZ) (XA) (XB) (XC) (XD) (XE) (XF) (XG) (XH) (XI) (XJ) (XK) (XL) (XM) (XN) (XO) (XP) (XQ) (XR) (XS) (XT) (XU) (XV) (XW) (XX) (XY) (XZ) (YA) (YB) (YC) (YD) (YE) (YF) (YG) (YH) (YI) (YJ) (YK) (YL) (YM) (YN) (YO) (YP) (YQ) (YR) (YS) (YT) (YU) (YV) (YW) (YX) (YY) (YZ) (ZA) (ZB) (ZC) (ZD) (ZE) (ZF) (ZG) (ZH) (ZI) (ZJ) (ZK) (ZL) (ZM) (ZN) (ZO) (ZP) (ZQ) (ZR) (ZS) (ZT) (ZU) (ZV) (ZW) (ZX) (ZY) (ZZ)

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SECTION A-A

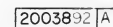
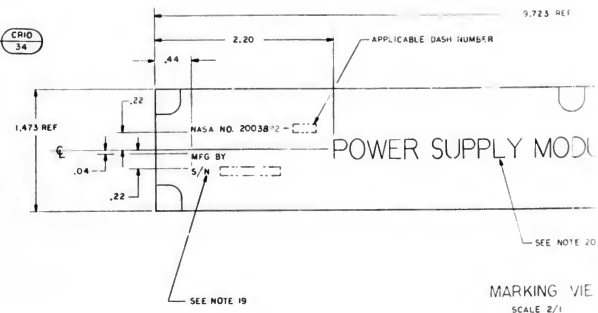
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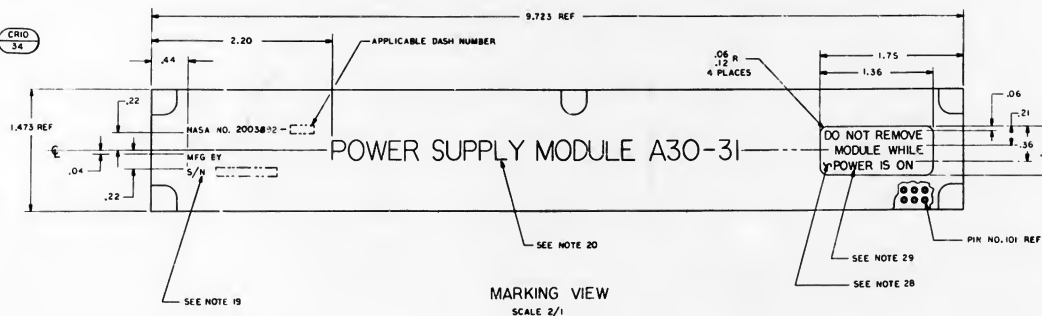
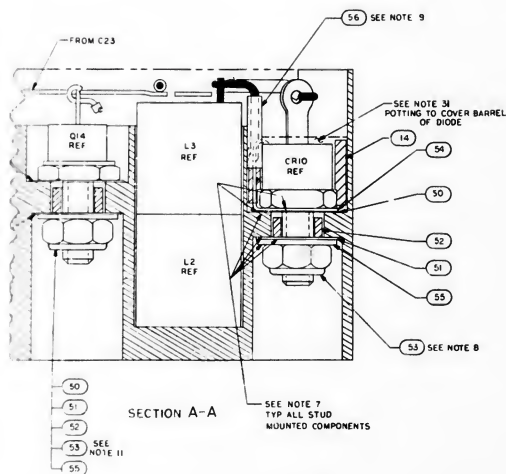
NOTES

1. STAKE FIND NO.26 TO FIND NO.20 USING STAKING COMPOUND
PER MIL-S-22473 TYPE HV
2. PINS INDICATED I THRU 5 ARE FOR REFERENCE ONLY AND
ARE NOT TO BE MARKED
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327
4. IDENTIFY WITH PART NO. PER NDIO02019
5. FIND NO.21 AND FIND NO.23 TO BE BOTTOMED BEFORE
ASSEMBLING FIND NO.26
6. MOUNTING TORQUE OF FIND NO.26 TO BE 2.5 TO 2.8 INCH POUNDS

2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	AN565DC4H3	SET-SCREW	
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2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2004944	SPRING,CAP RETAINING	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1006369	PACKING PREFORM	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2003926-011	HOUSING ASSY (CAP)	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2003975-021	SHAFT ASSY	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2003933-021	HOUSING ASSY (MOUNTING)	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1006353-019	CAP,ELECTRICAL,ENGRAVED	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-018		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-017		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-016		
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1006353-001	CAP,ELECTRICAL,ENGRAVED	
QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	1/PW
21L	19L	18L	17L	16L	15L	14L	13L	12L	11L	09L	08L	07L	06L	05L	04L	03L	02L	01L		
																		LIST OF MATERIALS		

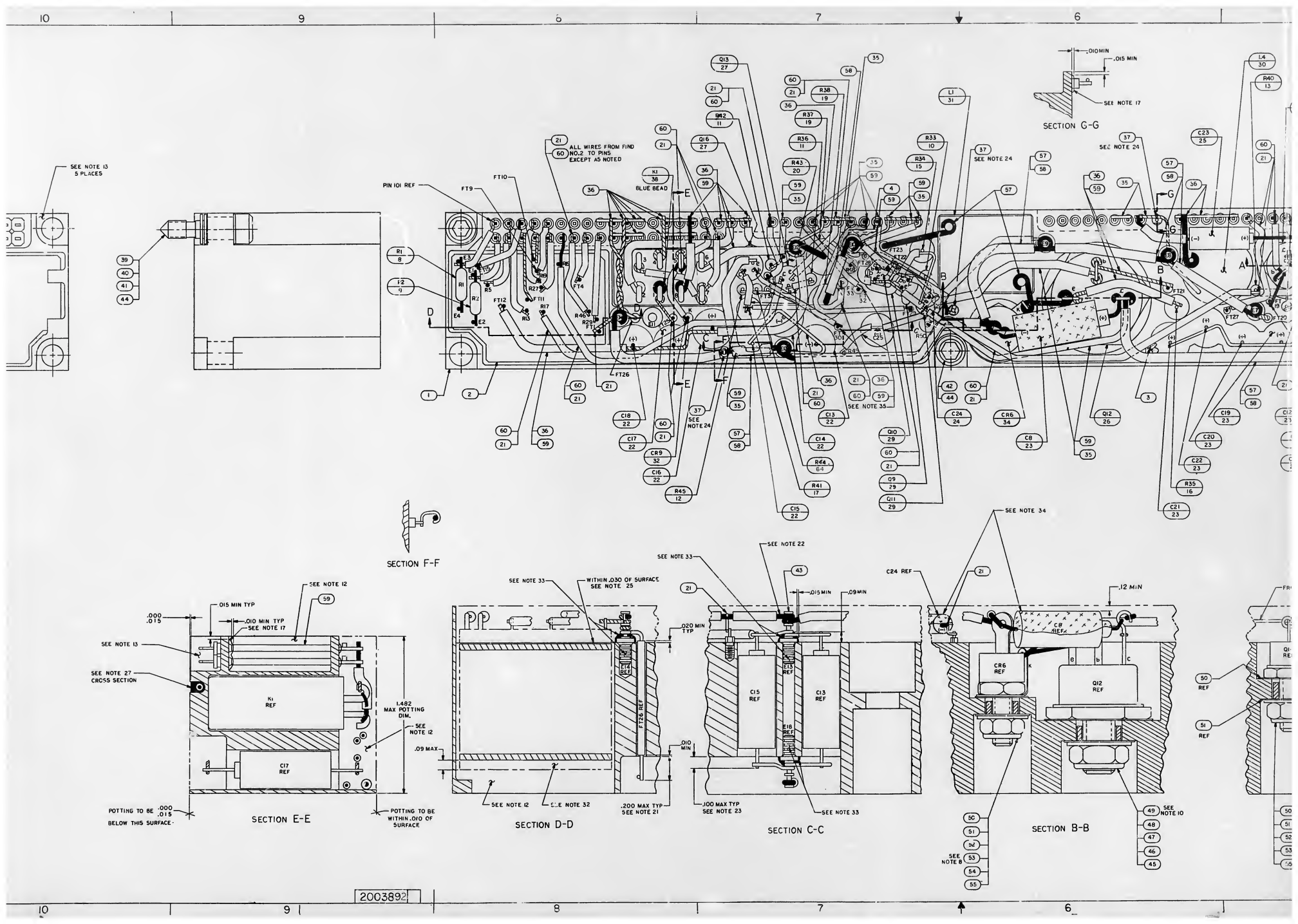
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES = = = DO NOT SCALE THIS DRAWING		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		MATERIAL		DRAWN <i>[Signature]</i> <i>7/6/68</i> CHECKED <i>[Signature]</i> <i>7/22/68</i> APPROVED <i>[Signature]</i> APPROVED <i>[Signature]</i>		PUSH BUTTON SWITCH ASSEMBLY PLUG IN UNIT AGC DSKY	
2003949				APPROVED <i>[Signature]</i> <i>7/6/68</i> DATE <i>7/6/68</i> C.L.A.		CODE IDENT NO 80230	SIZE D
NEXT STEP		USED ON		APPROVED <i>[Signature]</i> REC. <i>[Signature]</i>		DRAWING NO 2003375	
APPLICATION				SHEET 3/1		SHEET 1 OF 1	

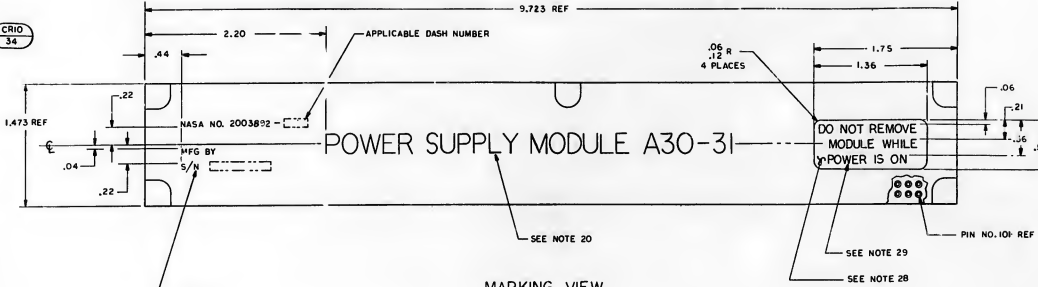
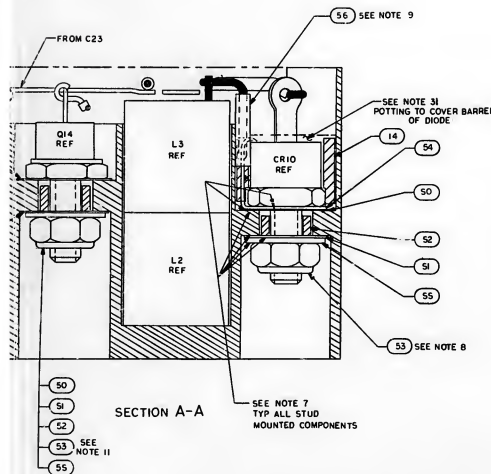




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90	1006750-32	TRANSISTOR	67

20703993 NEXT DATE: 10/25/2008 USED ON: 20703993		NEXT TREATMENT: 20703993 FROM TREATMENT: 20703993		NEXT APPROVAL: 20703993 APPROVAL: 20703993		CODE: 20703993 802330 PAGE 4/1		RUN: 20703993 JY SHEET 1 OF 1	
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MARKING VIEW
SCALE 2/1

[illegible]

2003892	
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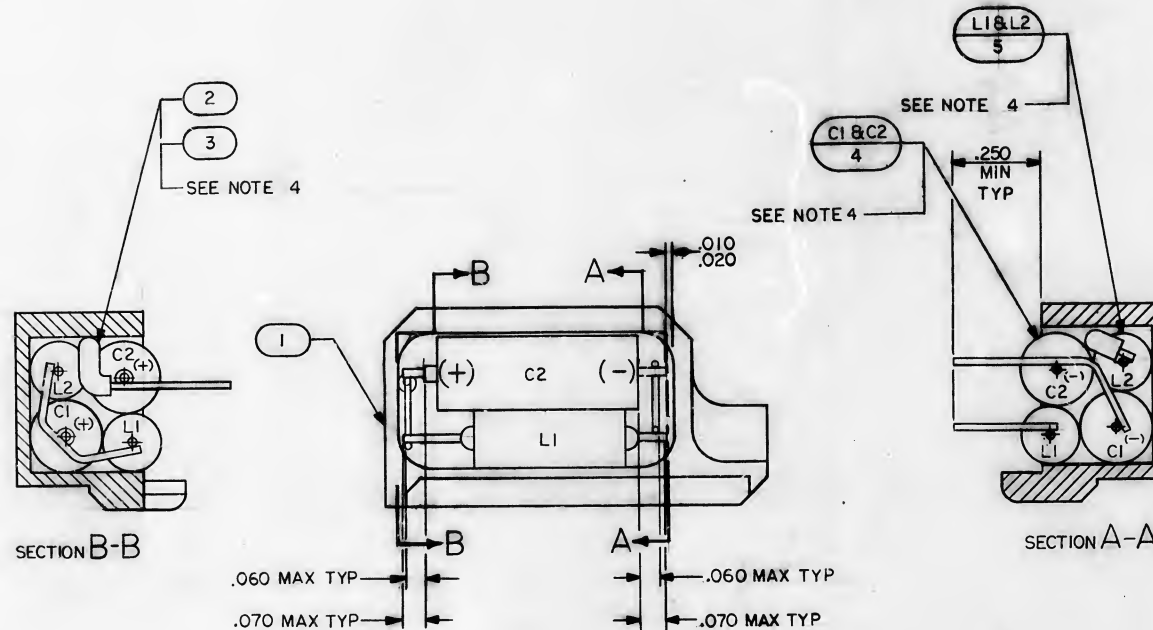
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES		M.I.T. INSTRUMENTATION LAB DRAWING NO. <i>2003393</i> DATE <i>10/1/67</i> CHECKED <i>10/1/67</i> APPROVED <i>10/1/67</i>		MANAGED SPACECRAFT CENTER PM01-19, TEXAS POWER SUPPLY MODULE A30 - 31 ASSEMBLY	
DO NOT SCALE THIS DRAWING NEATLY		NASA APPROVAL <i>10/1/67</i> APPROVED <i>10/1/67</i>		CHECK DESIG. BY 200330 DATE 8/1 SIZE 2003832	
2003393 NEXT REV. USED ON APPLICATION		FINAL TYPING APPROVED <i>10/1/67</i>		DRAWING NO. 2003832 SHEET 6 OF 1	

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITE GOVERNMENT PROCUREMENT OPERATION OF THE UNITED STATES, THE USER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMISSIONS FROM THE GOVERNMENT. THE GOVERNMENT MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, OR SUITABILITY OF ANY INFORMATION FURNISHED HEREIN, AND THE USER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMISSIONS FROM THE GOVERNMENT. THE GOVERNMENT MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, OR SUITABILITY OF ANY INFORMATION FURNISHED HEREIN, AND THE USER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMISSIONS FROM THE GOVERNMENT.

2003908

REVISIONS 20272

BY	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 23232 DR LCT CHK JCL APPD 07m	11/11/5	S. J. Smith



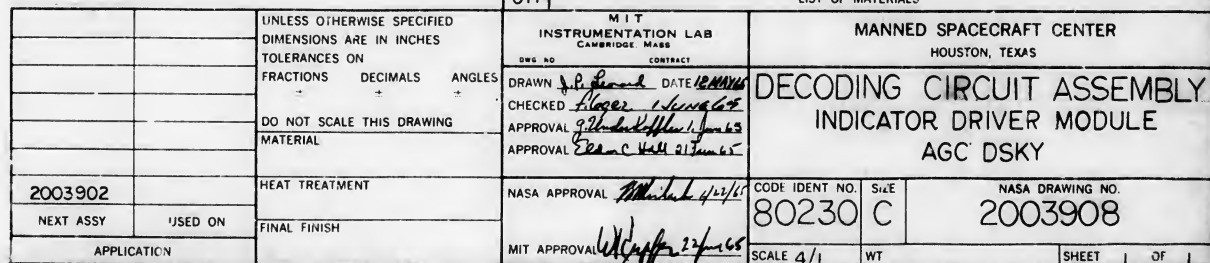
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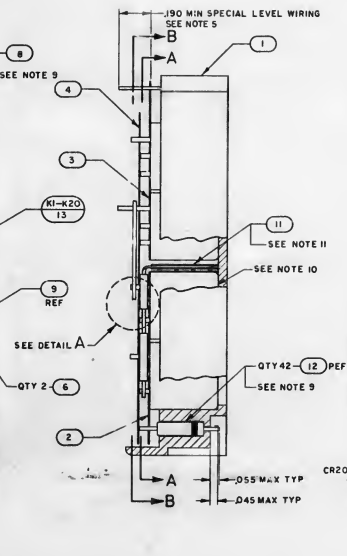
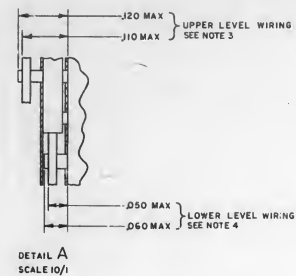
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
- WELD PER ND1002005
- STAKE FIND NO. 2, 3, 4, 5 TOGETHER & FIND NO. 1 PER ND 1002004 TYPE X BEFORE WELDING
- + DENOTES POSITIVE SIDE OF CAPACITOR
- AR DENOTES AS REQUIRED
- IDENTIFY WITH PART NO. PER ND 1002019

QTY	REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIN. NO.
2		1010406-7	COIL, RF, CHOKE	5
2		1006755-126	CAPACITOR, FIXED, ELECTROLYTIC	4
AR		1006776-22	SLEEVING, INSULATION	3
AR		1006757-8	WIRE, ELECTRICAL	2
1		2004909	BLOCK, COMPONENT	1

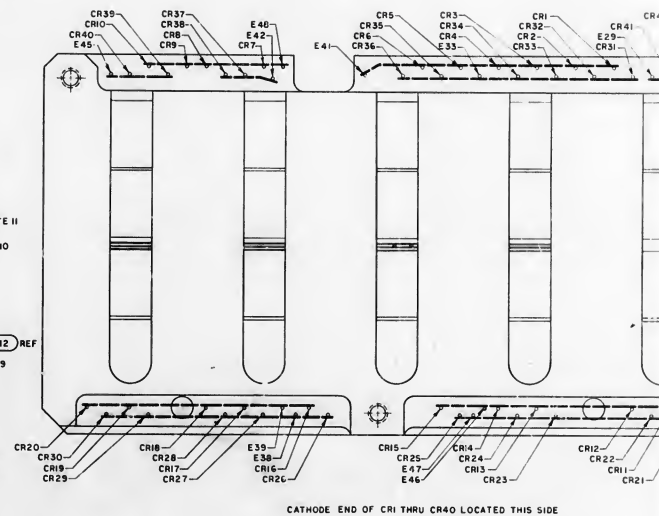
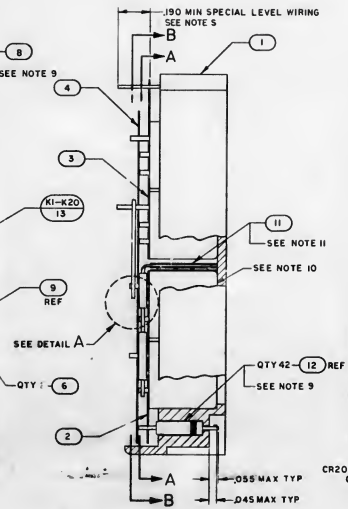
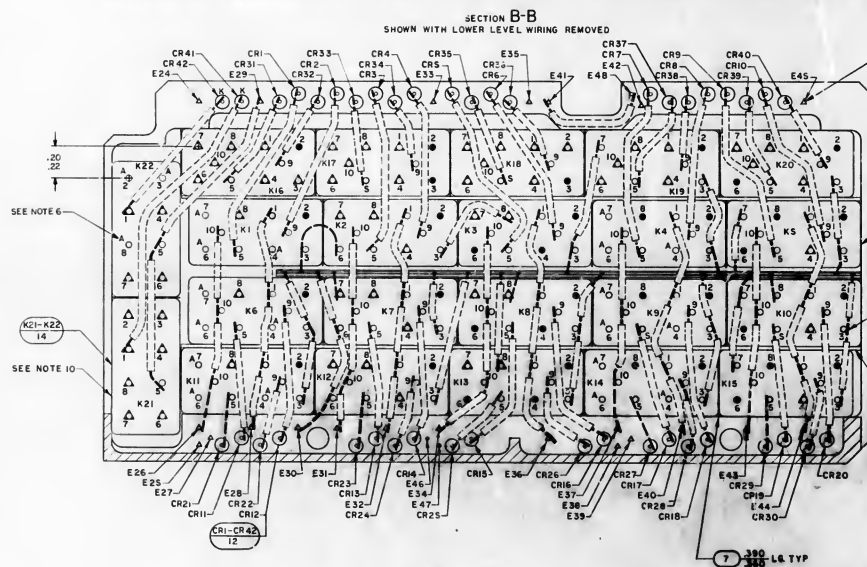
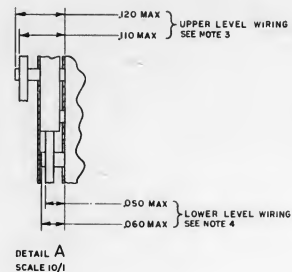
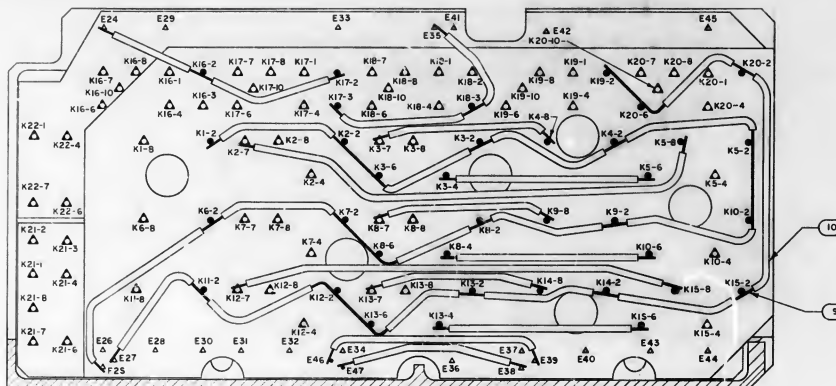
2003902		MIT INSTRUMENTATION LAB CAMBRIDGE MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>J.P. Bunch</i> DATE <i>4/11/65</i>		CHECKED <i>W. J. Bunch</i> DATE <i>4/11/65</i>		APPROVAL <i>J. Bunch</i> DATE <i>4/11/65</i>	
2003902		HEAT TREATMENT		NASA APPROVAL <i>W. J. Bunch</i> DATE <i>4/11/65</i>	
NEXT ASSY		USED ON		MIT APPROVAL <i>W. J. Bunch</i> DATE <i>4/11/65</i>	
APPLICATION		FINAL FINISH		CODE IDENT NO. 80230	
				SIZE C	
				NASA DRAWING NO. 2003908	
				SCALE 4/4	
				WT	
				SHEET 1 OF 1	

SYM	DESCRIPTION	DATE	APPROVAL
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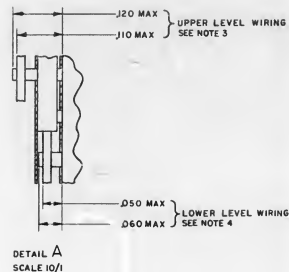


1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AR DENOTES AS REQUIRED
3. K AND KX AND SINGLE SOLID LEADS INDICATE UPPER LEVEL WIRING
4. WHITENUT DOT AND SINGLE DOTTED LEADS INDICATE LOWER LEVEL WIRING
5. * INDICATES LEADS TO BE CUT FOR SPECIAL LEVEL WIRING
6. F IN UNUSED LEADS MARKED A OF FIND NO.13.14 .010/.030 FROM CASE
7. WELDER NO.0200205
8. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH NDI0200209
9. STAKE FIND NO.8 & 12 TO FIND NGLR NDI0200209 METHOD C OR D
10. METHOD C FIND NO.13.14 & 16 TO FIND NGLR NDI0200204 TYPE III
11. REMOVE PROTECTIVE LINER FROM FIND NO.1 AND ASSEMBLE
12. TO K6 THRU K10AS SHOW
13. DENOTE CATHODE SIDE OF DIODE
14. IDENTIFY "W" PART NO.8 NDI0200209



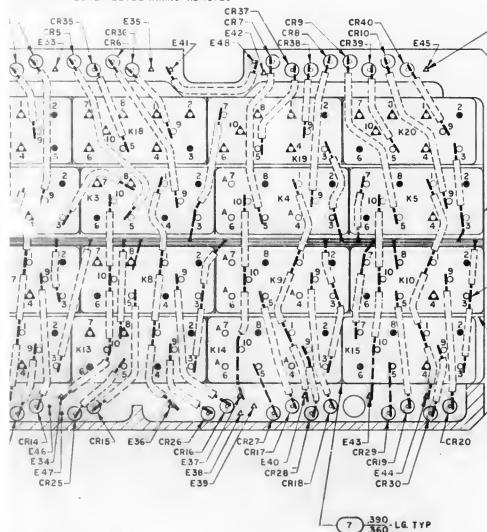
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AD DENOTES AS REQUIRED
3. BLACK DOT AND SINGLE SOLID LEADS INDICATE UPPER LEVEL WIRING
4. WHITE DOT AND SINGLE DOTTED LEADS INDICATE LOWER LEVEL WIRING
5. A INDICATES LEADS TO BE CUT FOR SPECIAL LEVEL WIRING
6. TRIM UNUSED LEADS MARKED A OF FIND NO.13 & 14 .010/.030 FROM CASE
7. WELD PER ND1002005
8. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
9. STAKE FIND NO.8 & 12 TO FIND NO.1 PER ND1002009 METHOO C OR D
10. BOND FIND NO.13 & 14 TO FIND NO.1 PER ND1002004 TYPE 'X'
11. REMOVE PROTECTIVE LINER FROM FIND NO.11 AND ASSEMBLE TO K6 THRU K10AS SHOWN
12. K DENOTES CATHODE SIDE OF DIODE
13. IDENTIFY WITH PART NO. PER ND1002019

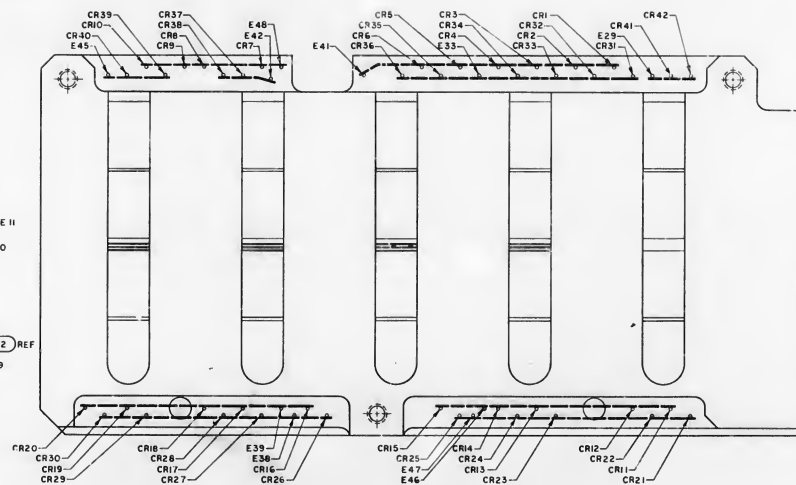
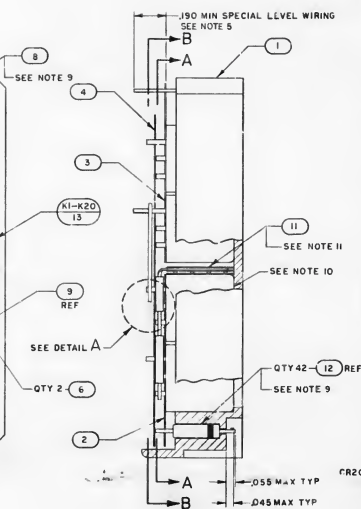


DETAIL A
SCALE 10/1

SECTION D D
SHOWN WITH LOWER LEVEL WIRING REMOVED



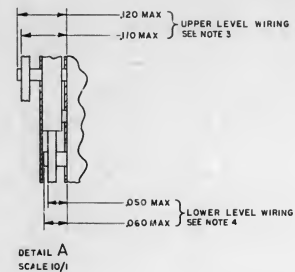
WITH FIRST LEVEL INSULATOR REMOVED



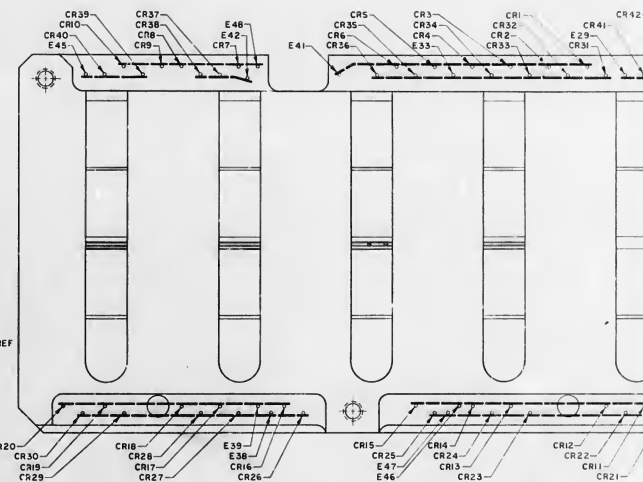
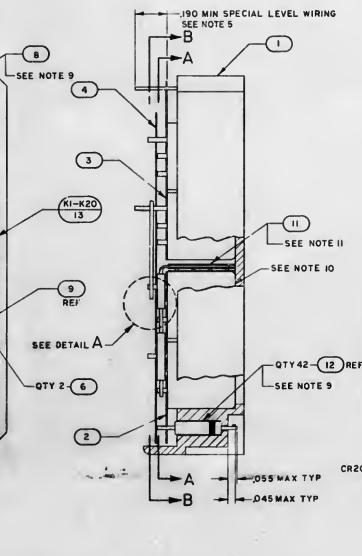
CATHODE END OF CRI THRU CR40 LOCATED THIS SIDE

✖	2008902	SCHEMATIC	REF
2	1010784-9	RELAY	14
20	1006282-2	RELAY	13
42	2000141-001	CIRCUIT BOARD	11
	200331	MATRIX ASSEMBLY	12
AR	1006776-22	INSULATION, SLEEVING ELECTRICAL	10
AR	1006757-1	WIRE, ELECTRICAL, Ø10 X0.20	9
AR	1006757-8	WIRE, ELECTRICAL, Ø20 Ø1A	8
AR	1006506-24	INSULATION TAPE, ELECTRICAL	7
E	2004916	BOARD, INSULATOR	5
	2004917	INSULATOR	4
1	2004916	INSULATOR, A	3
1	2004952	INSULATOR, B	3
1	2004953	INSULATOR, A	2
1	2004908	BLOCK, COMPONENT RELAY	1
QTY REQD	WRTY OR SERIALIZING NO	FORM 147 USE OF ELECTRONICS	FORM NO

2003902 NEXT DAY APPLICATION		USED ON FINAL FRANCH		UPON THE ABOVE SPECIFIED DIMENSIONS ARE IN INCHES POLYMER OF FRACTIONS & DECIMALS IF NOT SCALE THIS DRAWING MATERIAL	QTY 1 BY INSTRUMENTATION LAB MANHATTAN SCALE-IT CENTER ROUTINE, TEXAS ORDERED BY APPROVED BY DATE	RELAY CIRCUIT ASSEMBLY INDICATOR DRIVER MODULE AGC DSKY	DATE 80230 J SCALE 1/2" = 1" 2003910	ORDER NO. 101, 102 80230 J DATE 10/1/80 2003910	AGC DSKY NO. 101, 102 DATE 10/1/80 2003910
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DETAIL A
SCALE 10/1



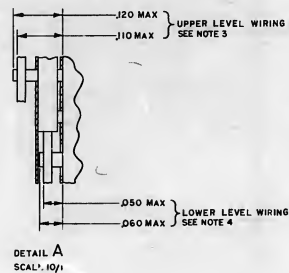
CATHODE END OF CRI THRU CR40 LOCATED THIS SIDE

SECTION A-A

SHOWN WITH FIRST LEVEL INSULATOR REMOVED

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. A/P DENOTES AS REQUIRED
3. BLACK DOT AND SINGLE SOLID LEADS INDICATE UPPER LEVEL WIRING
4. WHITE DOT AND SINGLE DOTTED LEADS INDICATE LOWER LEVEL WIRING
5. * INDICATES LEADS TO BE CUT FOR SPECIAL LEVEL WIRING
6. W/LEADER NO1002009S
7. THIN UNUSED LEADS MARKED A OF FIND NO13.61A 010/030 FROM CASE
8. W/LEADER NO1002009S
9. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH NO1002009S
5. STAKE FIND NO 8.612 TO FIND NO10100209S METHOD C OR D
6. STAKE FIND NO13.61A TO FIND NO10100209S TYPE C
7. REMOVE PROTECTIVE LINER FROM FIND NO1010101 AND ASSEMBLE
8. TO #THRU K10030S SHOWN
9. A/P DENOTES CATHODE SIDE OF DIODE
6. PZ= 17-11-58R NO10100209S



DETAIL A
SCALE: 10/

Technical drawing of a vertical assembly, likely a component of a machine. The drawing includes the following callouts and labels:

- 1**: Points to the upper cylindrical section.
- 2**: Points to the lower cylindrical section.
- 3**: Points to a horizontal flange or support structure.
- 4**: Points to a vertical support or bracket.
- 5**: Points to a horizontal flange or support structure.
- 6**: Points to a horizontal flange or support structure.
- 7**: Points to a horizontal flange or support structure.
- 8**: Points to a horizontal flange or support structure.
- 9**: Points to a horizontal flange or support structure.
- 10**: Points to a horizontal flange or support structure.
- 11**: Points to a horizontal flange or support structure.
- 12**: Points to a horizontal flange or support structure.
- 13**: Points to a horizontal flange or support structure.

Labels and dimensions:

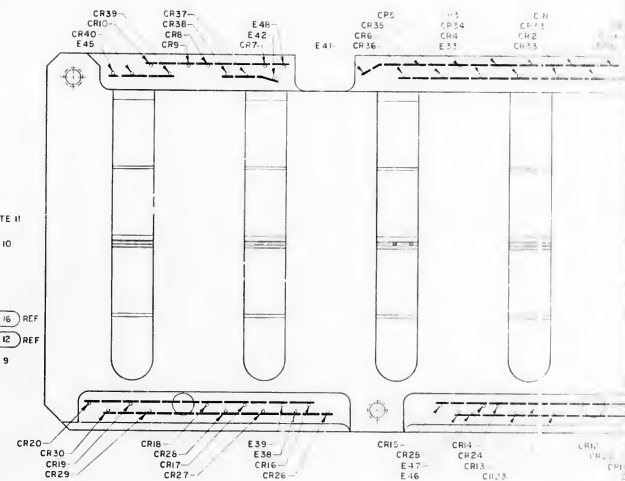
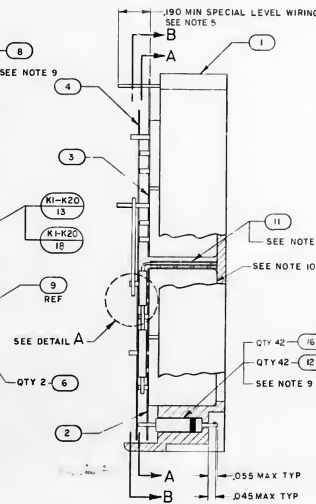
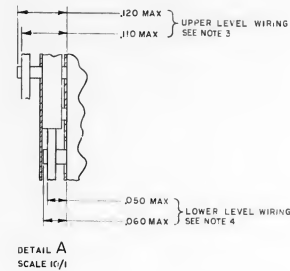
- 90 MIN SPECIAL LEVEL WIRING** (top left)
- SEE NOTE 5** (top left)
- SEE NOTE 9** (top left)
- SEE NOTE 11** (middle right)
- SEE NOTE 10** (middle right)
- SEE DETAIL A** (middle left)
- QTY 2** (bottom left)
- QTY 42** (bottom right)
- SEE NOTE 9** (bottom right)
- 0.055" MAX TYP** (bottom right)
- 0.45 MAX TYP** (bottom right)
- CR20** (bottom right)

CATHODE END OF CRI THRU CR40 LOCATED THIS SIDE

QTY	PART OR DESCRIPTION	DESCRIPTION	NON IN STOCK OR IN DISCREPANCY	FRAG PERCENT
2	1010784 - II	RELAY		13
20	1006282-2	RELAY		10
42	2004003-001	DIODE		12
1	2003591	MATRIX ASSEMBLY		11
AP	1006776-221	WIRE, ELECTRICAL, SLEEVEING		9
AP	1006757-1	WIRE, ELECTRICAL, DIO X202		9
AP	1006757-8	WIRE, ELECTRICAL, Q20		8
AP	1006806-24	INSULATION TAPE, ELECTRICAL		9
2	20040851	BOARD, INSULATOR		6
1	20040816	INSULATOR, 20R		6
3	20040816	INSULATOR, 4R		4
1	2004952	INSULATOR, B		3
1	2004933	INSULATOR, A		2
1	2004908	BLOCK, COMPONENT RELAY		2

011		- LIST OF MATERIALS	
NUTTY INSTRUMENTATION LAB LEXINGTON, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DESKING <i>2/20/68</i> CHECKED <i>2/20/68</i> APPROVAL <i>2/20/68</i> APPROVED <i>2/20/68</i>		RELAY CIRCUIT ASSEMBLY INDICATOR DRIVER MODULE AGC DSKY	
DATA APPROVAL <i>2/20/68</i> MFT APPROVAL <i>2/20/68</i> MFT APPROVED <i>2/20/68</i>		CODE IDENT NO 80230	SIZE 2003310
		SCALE <i>1</i> IN J	SHEET 1 OF 1

2003952 2003902	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL	INSTRUMENTATION LAB CARRINGTON ROAD DEPT. 6 DRAWN BY <i>W. J. GAY</i> DATE <i>11/1/82</i> CHECKED BY <i>W. J. GAY</i> APPROVAL <i>W. J. GAY</i> APPROVAL <i>W. J. GAY</i>
	NEXT ASY USED ON APPLICATION	HEAT TREATMENT FINAL FISH



CATHODE END OF CRI THRU CR40 LOCATED THIS SIDE

- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ALL DIMENSIONS AS REQUIRED
3. BLACK DOT AND SINGLE SOLID LEADS INDICATE UPPER LEVEL WIRING
4. BLACK DOT AND SINGLE DOT WITH DASH INDICATE LOWER LEVEL WIRING
5. * INDICATES LEADS TO BE CUT FOR SPECIAL LEVEL WIRING
6. TRIM UNUSED LEADS MARKED A OF FIND NO.13,17 & E .010/.030 FROM CASE
7. WELD PINS IN DODGERS
8. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH HD0202069
9. 1/16" DIA. FID NO.2416 TO FID NO.2415 RADIUS MUST BE .004" LEAST & .006" MAX
10. BOND FID NO.13,5/78 TO FID NO.17,1/16" DIA. FID NO.2020 A TIVE S
11. REMOVE PROTECTIVE LINER FROM FID NO.11 AND ASSEMBLY
TO K4. THRU K4S SHOWN
12. K DENOTES CATHODE SIDE OF DIODE
13. IDENTIFY ALL PART NO PER K4S
14. FIND NO 8 SHALL BE .020468-1 OR .020468-2, EXCEPT NOT BOTH IN A GIVEN ASSEMBLY.

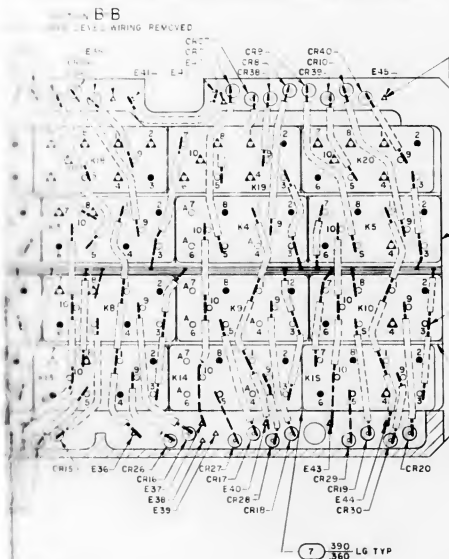
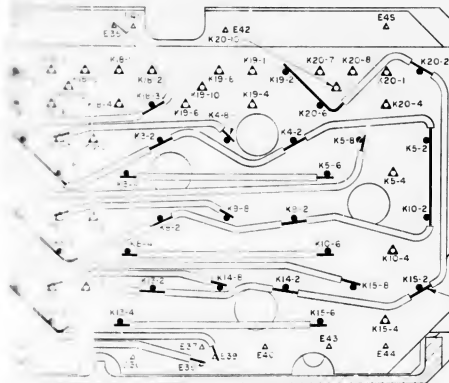
F- 1 / 2

2003910

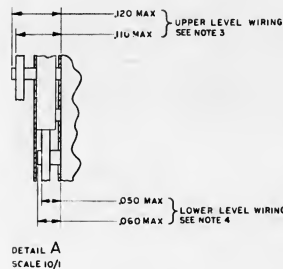
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2003910	D
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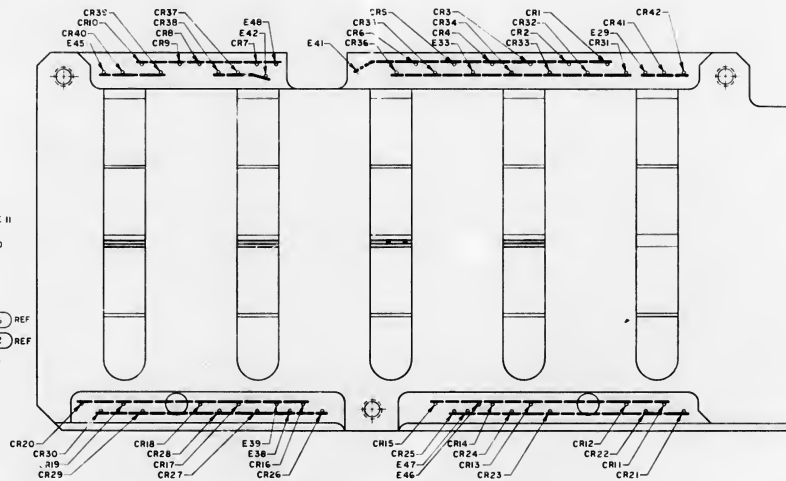
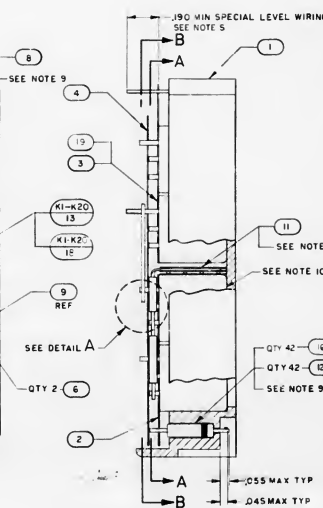
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AX A
E41 INSULATOR REMOVED

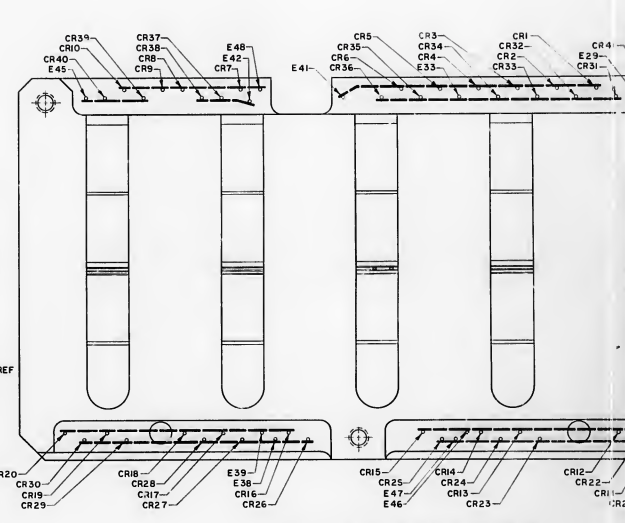
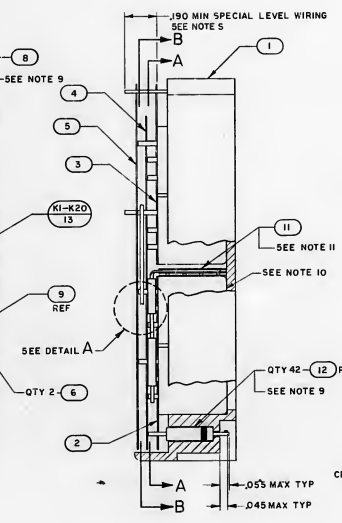
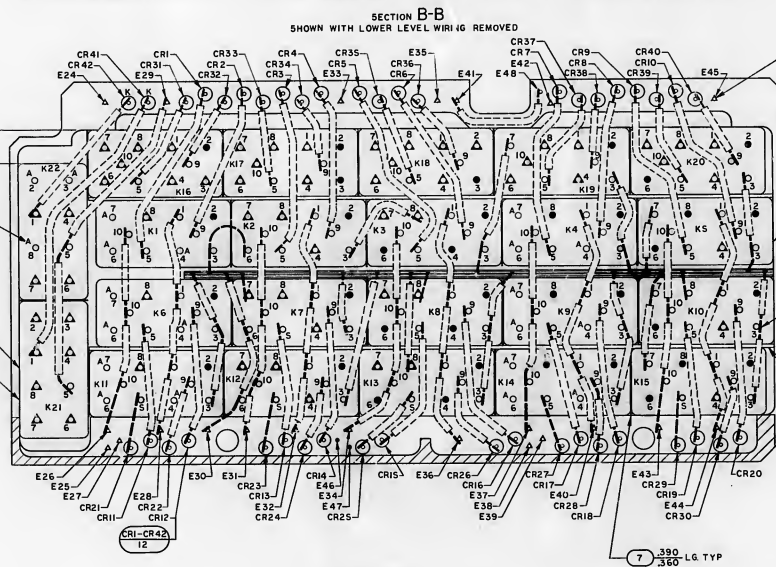
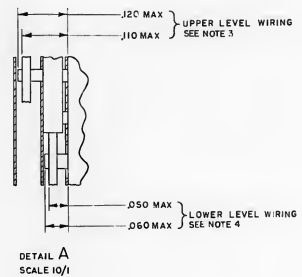
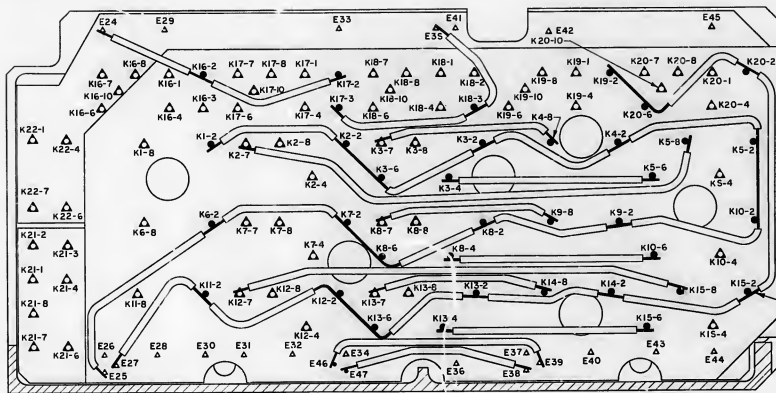


DETAIL A
SCALE 10/1



CATHODE END OF CR1 THRU CR40 LOCATED THIS SIDE

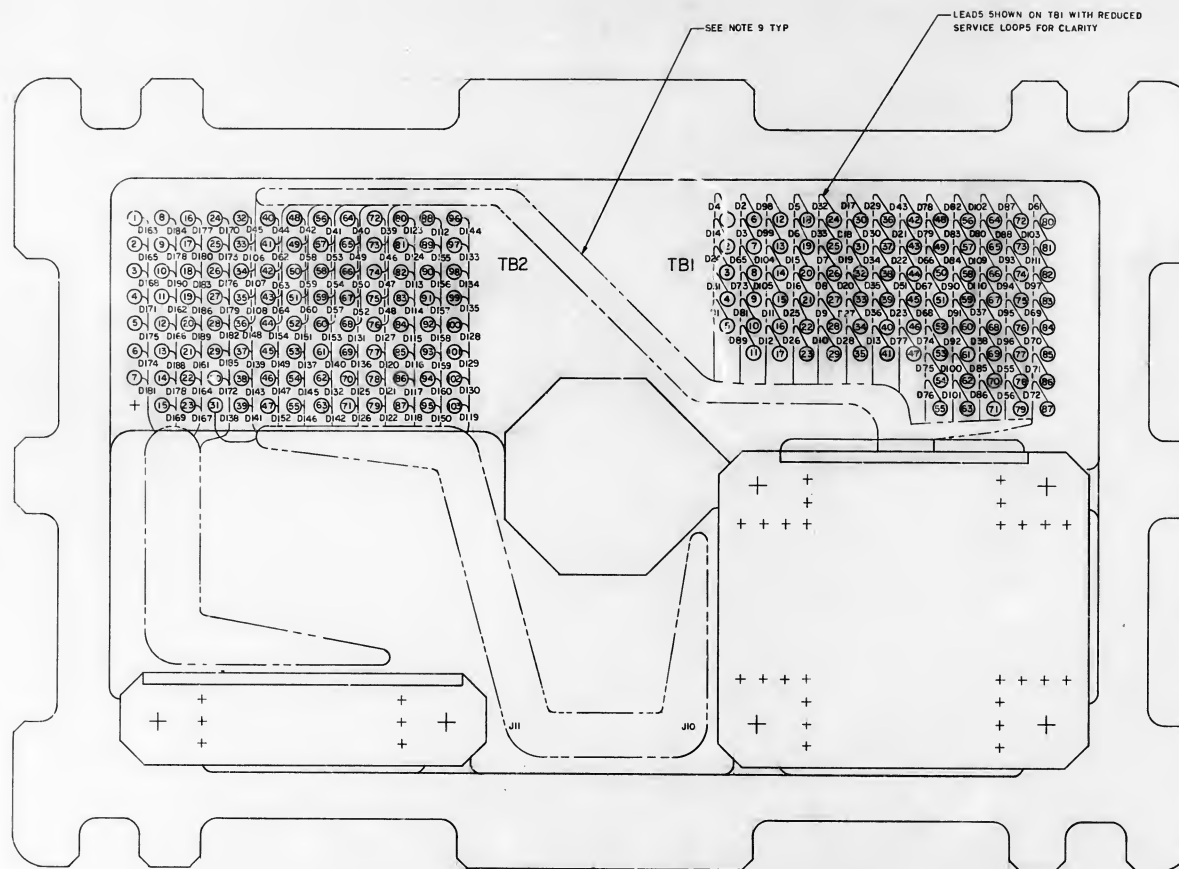
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2006462-6	SCHEMATIC	13
2006462-7	SCHEMATIC	12
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2006462-9	SCHEMATIC	10
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2006462-17	SCHEMATIC	2
2006462-18	SCHEMATIC	1
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2006462-99	SCHEMATIC	0
2006462-100	SCHEMATIC	0



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. A# DENOTES AS REQUIRED
 3. BLACK DOT AND SINGLE SOLID LEADS INDICATE UPPER LEVEL WIRING
 4. WHITE DOT AND SINGLE DOTTED LEADS INDICATE LOWER LEVEL WIRING
 5. Δ INDICATES LEADS TO BE CUT FOR SPECIAL LEVEL WIRING
 6. TRIM UNUSED LEADS MARKED A OF FIND NO.13 & 14 .010/.030 FROM CASE
 7. WELD PER ND1002005
 8. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
 9. STAKE FIND NO.8 & 12 TO FIND NO.1 PER ND1002009 METHOD C OR D
 10. BOND FIND NO.13 & 14 TO FIND NO.1 PER ND1002004 TYPE IV
 11. REMOVE PROTECTIVE LINER FROM FIND NO.11 AND ASSEMBLE TO KS THRU K10AS SHOWN
 12. K DENOTES CATHODE SIDE OF DIODE

[illegible]

REVISIONS 2003			
BY	DESCRIPTION	DATE	APPROV
A	REVISED PER TORR 22315 OR 22315 CHK 22315 22315	11/16/03	11/16/03
B	REVISED PER TORR 23237 OR 23237 CHK 23237 23237	11/16/03	11/16/03
C	REVISED PER TORR 23949 OR 23949 CHK 23949 23949	11/16/03	11/16/03
D	REVISED PER TORR 24665 OR 24665 CHK 24665 24665	11/16/03	11/16/03



CITY	POST OR CERTIFY NO.	NOBENATION OR DESCRIPTION	TAX NO.
		LIST OF MATERIALS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES AND DEGREES SHALL BE: DO NOT SCALE THIS DRAWING. MATERIAL:		MANNED SPACECRAFT CENTER ADAPTER PLATE ASSY AGC DSKY	
NEAT TEST	USED ON	CODE COUNT NO.	SHEET DRAWING NO.
APPLICATION	DRAWN FIRST	8023030 E	2003912
BY APPROVAL		DATE	SHEET 2 OF 3

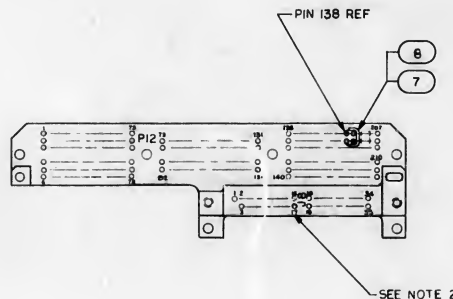
LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
D1		J10-1	7	YEL	30		TB1-5		
D2		J1-2					TB1-5		
D3		J1-3					TB1-5		
D4		J1-4					TB1-5		
D5		J1-5					TB1-5		
D6		J1-6					TB1-5		
D7		J1-7					TB1-5		
D8		J1-8					TB1-5		
D9		J1-9					TB1-5		
D10		J1-10					TB1-5		
D11		J1-11					TB1-5		
D12		J1-12					TB1-5		
D13		J1-13					TB1-5		
D14		J1-14					TB1-5		
D15		J1-15					TB1-5		
D16		J1-16					TB1-5		
D17		J1-17					TB1-5		
D18		J1-18					TB1-5		
D19		J1-19					TB1-5		
D20		J1-20					TB1-5		
D21		J1-21					TB1-5		
D22		J1-22					TB1-5		
D23		J1-23					TB1-5		
D24		J1-24					TB1-5		
D25		J1-25					TB1-5		
D26		J1-26					TB1-5		
D27		J1-27					TB1-5		
D28		J1-28					TB1-5		
D29		J1-29					TB1-5		
D30	SEE NOTE 3	J1-30					TB1-5	SEE NOTE 5	
D31		J1-31					TB1-5		
D32		J1-32					TB1-5		
D33		J1-33					TB1-5		
D34		J1-34					TB1-5		
D35		J1-35					TB1-5		
D36		J1-36					TB1-5		
D37		J1-37					TB1-5		
D38		J1-38					TB1-5		
D39		J1-39					TB1-5		
D40		J1-40					TB1-5		
D41		J1-41					TB1-5		
D42		J1-42					TB1-5		
D43		J1-43					TB1-5		
D44		J1-44					TB1-5		
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D99		J1-99					TB1-5		
D100		J1-100					TB1-5		
D101		J1-101					TB1-5		
D102		J1-102					TB1-5		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
D71		J10-102	7	YEL	30		TB1-9		
D72		J10-103					TB1-9		
D73		J10-104					TB1-9		
D74		J10-105					TB1-9		
D75		J10-106					TB1-9		
D76		J10-107					TB1-9		
D77		J10-108					TB1-9		
D78		J10-109					TB1-9		
D79		J10-110					TB1-9		
D80		J10-111					TB1-9		
D81		J10-112					TB1-9		
D82		J10-113					TB1-9		
D83		J10-114					TB1-9		
D84		J10-115					TB1-9		
D85		J10-116					TB1-9		
D86		J10-117					TB1-9		
D87		J10-118					TB1-9		
D88		J10-119					TB1-9		
D89		J10-120					TB1-9		
D90		J10-121					TB1-9		
D91		J10-122					TB1-9		
D92		J10-123					TB1-9		
D93		J10-124					TB1-9		
D94		J10-125					TB1-9		
D95		J10-126					TB1-9		
D96		J10-127					TB1-9		
D97		J10-128					TB1-9		
D98		J10-129					TB1-9		
D99		J10-130					TB1-9		
D100		J10-131					TB1-9		
D101		J10-132					TB1-9		
D102		J10-133					TB1-9		
D103		J10-134					TB1-9		
D104		J10-135					TB1-9		
D105		J10-136					TB1-9		
D106		J10-137					TB1-9		
D107		J10-138					TB1-9		
D108		J10-139					TB1-9		
D109		J10-140					TB1-9		
D110		J10-141					TB1-9		
D111		J10-142					TB1-9		
D112		J10-143					TB1-9		
D113		J10-144					TB1-9		
D114		J10-145					TB1-9		
D115		J10-146					TB1-9		
D116		J10-147					TB1-9		
D117		J10-148					TB1-9		
D118		J10-149					TB1-9		
D119		J10-150					TB1-9		
D120		J10-151					TB1-9		
D121		J10-152					TB1-9		
D122		J10-153					TB1-9		
D123		J10-154					TB1-9		
D124		J10-155					TB1-9		
D125		J10-156					TB1-9		
D126		J10-157					TB1-9		
D127		J10-158					TB1-9		
D128		J10-159					TB1-9		
D129		J10-160					TB1-9		
D130		J10-161					TB1-9		
D131		J10-162					TB1-9		
D132		J10-163					TB1-9		
D133		J10-164					TB1-9		
D134		J10-165					TB1-9		
D135		J10-166					TB1-9		
D136		J10-167					TB1-9		
D137		J10-168					TB1-9		
D138		J10-169					TB1-9		
D139		J10-170					TB1-9		
D140		J10-171					TB1-9		
D141		J10-172					TB1-9		
D142		J10-173					TB1-9		
D143		J10-174					TB1-9		
D144		J10-175					TB1-9		

LEAD ELECTRICAL									
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS	
D45		J10-63	7	YEL	30		TB2-54		
D46		J10-64					TB2-54		
D47		J10-65					TB2-54		
D48		J10-66					TB2-54		
D49		J10-67					TB2-54		
D50		J10-68					TB2-54		
D51	SEE NOTE 3	J10-69					TB2-54	SEE NOTE 5	
D52		J10-70					TB2-54		
D53		J10-71					TB2-54		
D54		J10-72					TB2-54		
D55		J10-73					TB2-54		
D56		J10-74					TB2-54		
D57		J10-75					TB2-54		
D58		J10-76					TB2-54		
D59		J10-77					TB2-54		
D60		J10-78					TB2-54		
D61		J10-79					TB2-54		
D62		J10-80					TB2-54		
D63		J10-81					TB2-54		

JUMPER LIST								
COND ID	REMARKS	FROM	FIND NO	COLOR	SIZE AWG	LENGTH	TO	REMARKS
F1	SEE NOTE 6	J8-4	6	YELLOW	30	AP	P12-188	SEE NOTE B
F2		↑ - 7	↑	↑	↑	↑	↑ -198	
F3		-12					-199	
F4		-13					-180	
F5		-28					-206	
F6		-29					-200	
F7		-31					-205	
F8		↓ - 32	↓	YELLOW	30	↓	-212	
F9		J8-33	6					
F10	SEE * NOTE 6	P12-183	7 A 8	—	LO200A	AR	P12-184	*

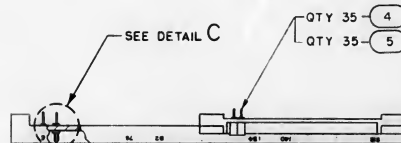
DETAIL C
SCALE 4/1



CONTACT
MALE REF

INSULATOR
MALE REF

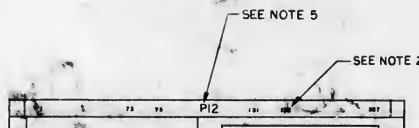
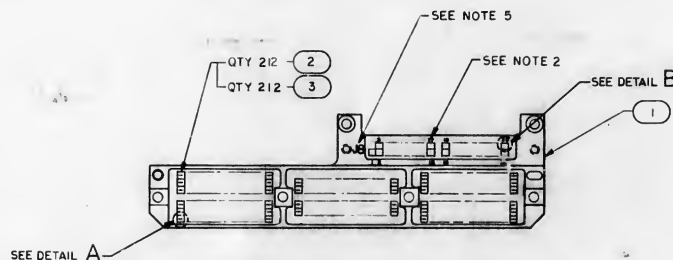
DETAIL A
SCALE 10/1
212 PLACES



CONTACT
FEMALE REF

INSULATOR
FEMALE REF

DETAIL B
SCALE 10/1
35 PLACES



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327
2. MARK APPROX. WHERE SHOWN .07/.05 HIGH BLACK CHARACTERS
PER ND1002019 AND ND1002122 TYPE II, CLASS 2 USING
INK 1006271-II
3. IDENTIFY WITH PART NO. PER ND1002019
4. ASSEMBLE FIND NO.2 THRU 5 TO FIND NO.1 PER ND1002136
5. MARK APPROX. WHERE SHOWN .13/.11 HIGH BLACK CHARACTERS
PER ND1002019 AND ND1002122 TYPE II, CLASS 2 USING
INK 1006271-II
6. WIRE WRAP USING JUMPER LIST PER ND1002031
AR DENOTES AS REQUIRED
7. WELD PER ND1002005
8. SEAL FIND NO.2,3,4 AND 5 TO FIND NO.1 PER ND1002004, TYPE III

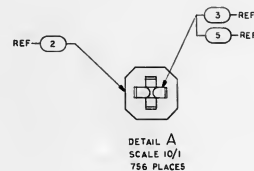
AR	1006776-22	INSULATION, SLEEVING	8
AR	1006757-8	WIRE, ELECTRICAL, .020 DIA	7
AR	1006732-1	WIRE, ELECTRICAL	6
35	1006774	INSULATOR, WRAPOST FEMALE	5
35	1006781-1	CONTACT, WRAPOST FEMALE	4
212	1006775	INSULATOR, WRAPOST MALE	3
212	1006782-3	CONTACT, WRAPOST MALE	2
212	2004922-Q11	PLATE, CONNECTOR	1
QTY REQ	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION
			FIN. NO.

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL		Q11 MIT INSTRUMENTATION LAB CHARLOTTE, N.C.	LIST OF MATERIALS MANNED SPACECRAFT CENTER HOUSTON, TEXAS
2003903 NEXT ASY USED ON		DRAWN <i>W.C. Runkle</i> CHECKED <i>W.C. Runkle</i> APPROVED <i>W.C. Runkle</i> APPROVED <i>W.C. Runkle</i>		CONNECTOR PLATE ASSY FRONT HOUSING AGC DSKY	
APPLICATION		APPROVED MIT <i>W.C. Runkle</i> APPROVED AGC <i>W.C. Runkle</i>		CODE IDENT. NO. 80230	SIZE D
		SCALE 1/1		DRAWING NO. 2003915	
		SHEET 1 OF			

MIT INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DESIGNED <i>W. J. Rie</i> 7-7-55 APPROVED <i>W. J. Rie</i> 7-7-55 CHECKED <i>W. J. Rie</i> 7-7-55		CONNECTOR PLATE ASSY MAIN HOUSING AGC DSKY	
APPROVED <i>W. J. Rie</i> 7-7-55 MIT		CODE IDENT NO. 80230	SIZE D
APPROVED <i>W. J. Rie</i> 7-7-55 MSC		DRAWING NO. 2003916	
DATE 7/7/55		SCALE 2/1	SHEET 1 OF 1

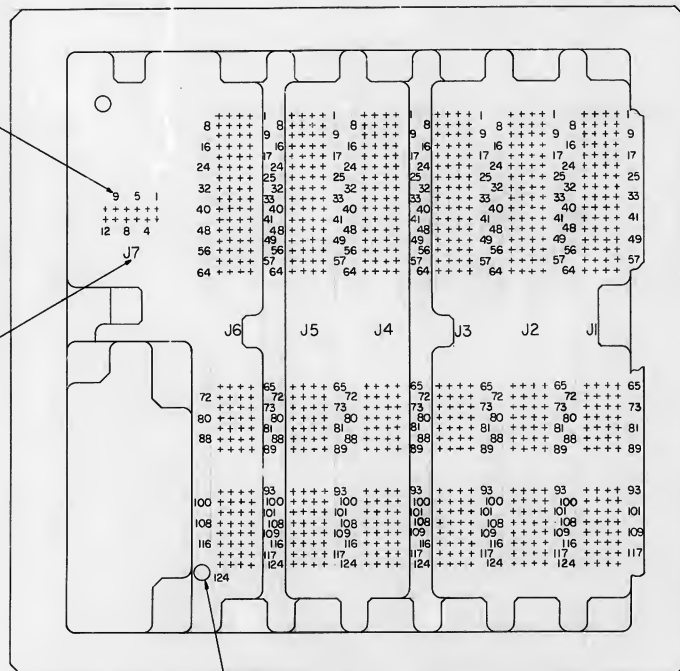
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
61		* J1-3	6	WHT	26	AR	J2-3	
62		J2-3	1	1	1	1	J3-3	
63		J3-3	1	1	1	1	J3-9	
64		J3-9	1	1	1	1	J5-10	
65		J5-10	1	1	1	1	J6-9	
66		J6-9	1	1	1	1	J5-64	
67		* J6-10	1	1	1	1	J3-10	
68		J3-10	1	1	1	1	J3-64	
69		J3-64	1	1	1	1	J5-9	
610		J5-9	6	WHT	26	AR	J5-64	

* DENOTES WIREWRAP MUST BE FIRST LEVEL



SEE NOTE 2

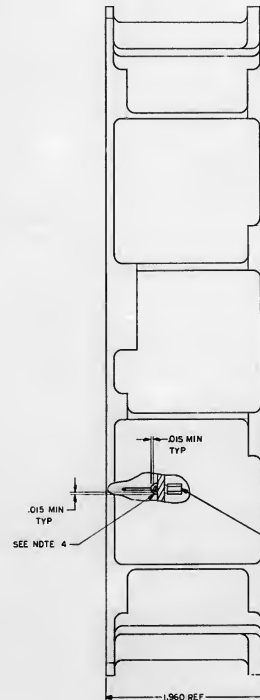
SEE NOTE 5



NOTES

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- MARK .070/.050 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122, TYPE II, CLASS 2, USING INK 1006271-11, CENTRALIZE AS SHOWN
- ASSEMBLE FIND NO. 2, FIND NO. 3 AND FIND NO. 5 TO FIND NO. 1 PER ND1002126
- SEAL FIND NO. 2, FIND NO. 3 AND FIND NO. 5 TO FIND NO. 1 PER ND1002004, TYPE II, CLASS 2, USING INK 1006271-11, CENTRALIZE AS SHOWN
- IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
- AR DENOTES AS REQUIRED
- WIREWRAP PER ND1002031 USING CHART AND WIREWRAP CARD DECK 2005906
- INSTALL FIND NOS IN PIN POSITIONS J1-3, J2-1, J2-3, J2-10, J2-11, J3-3, J3-9, J3-10, J3-64, J5-9, J5-10, J6-9, J7-2 AND J7-9

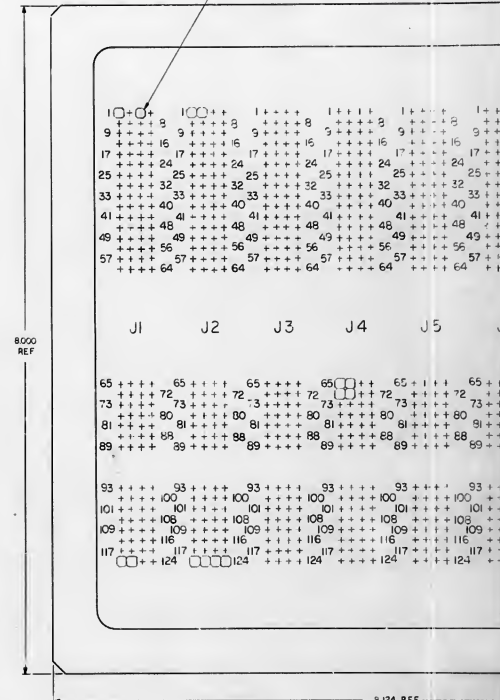
2003917



SEE NOTE 4

QTY 756 (2)
QTY 742 (3)
SEE NOTE 3 & 4

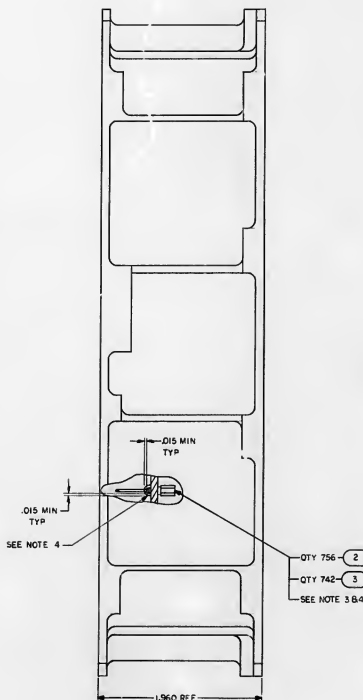
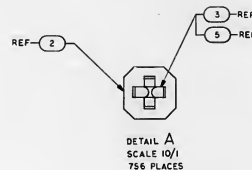
QTY 4 (5)
SEE NOTE 3
SEE DETAIL A



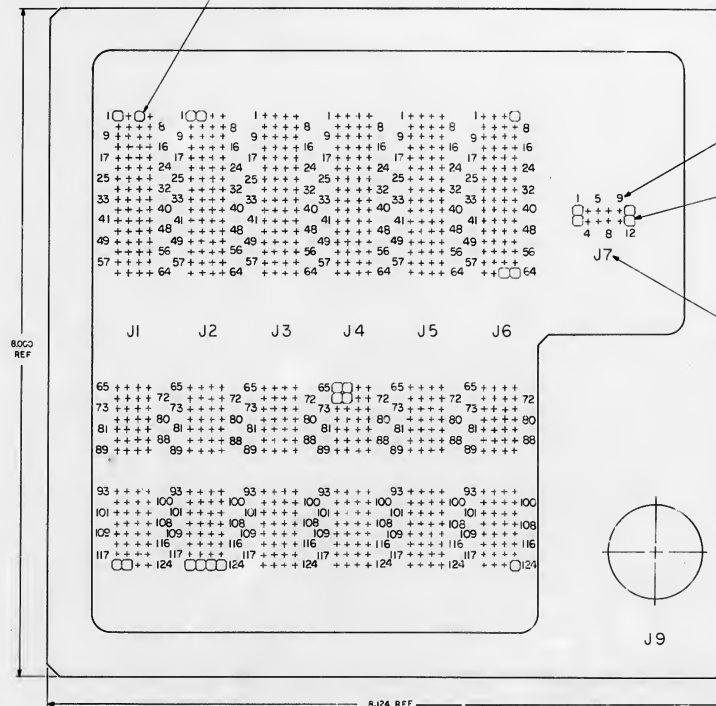
3233954
NEXT ARBY
APPROVAL

COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE / ANG	LENGTH	TO	REMARKS
51		J1-3	5	WHT	26	AR	J2-3	
52		J2-3	4				J3-3	
53		J3-3					J3-9	
54		J3-9					J5-10	
55		J5-10					J6-9	
56		J6-9					J6-64	
57		J6-10					J3-10	
58		J3-10					J3-64	
59		J3-64					J5-9	
60		J5-9	6	WHT	26	AR	J5-64	

* DENOTES A REWRAP MUST BE FIRST LEVEL



QTY 756 - 2
QTY 742 - 3
SEE NOTE 3 & 4



SEE NOTE 2

2-REF
3-REF

SEE NOTE 5

1

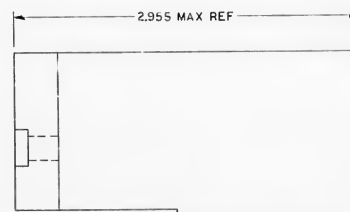
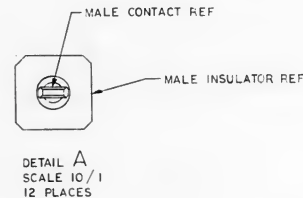
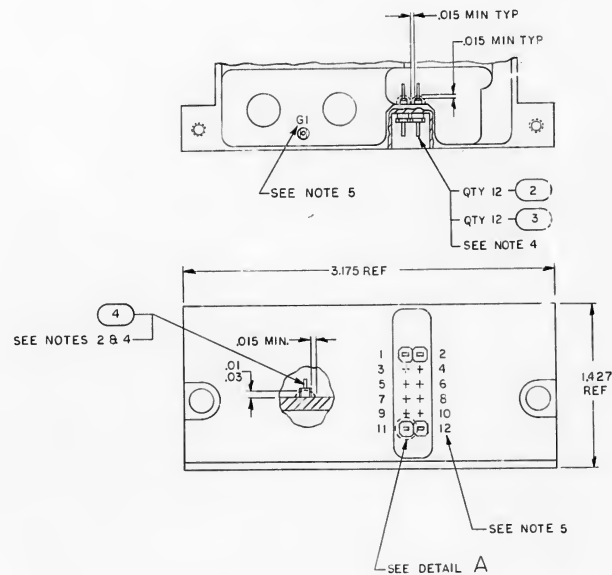
2003906	WIREWRAP CARD DECK	1	RE
2003907	WIRE HARNESS	2	7
AR 100007-22	WIRE, ELEC	9	6
14 1006781-2	CONTACT WRAPPOST-FEMALE, MINATURE	5	4
AR 100940-003	WIRE, ELEC	4	3
742 1006781-4	CONTACT WRAPPOST-FEMALE, MINATURE	3	2
756 1006774	INSULATOR WRAPPOST-FEMALE, MINATURE	2	1
1 200658-011	PLATE, IDH	1	
QTY	PART OR IDENTIFYING NO	QTY	DESCRIPTION OR IDENTIFYING NO
QTY	IDENTIFYING NO	QTY	DESCRIPTION OR IDENTIFYING NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± .010 ± .005 ± .010 DO NOT SCALE THIS DRAWING DATE: 10/1/74 APPROVED: [Signature] BY: [Signature]		INSTRUMENTATION LAB HOUSTON TEXAS DATE: 10/1/74 BY: [Signature] APPROVED: [Signature]		MANNED SPAC. CRAFT CENTER HOUSTON TEXAS WIREWRAP IDH PLATE ASSY MAIN HOUSING AGC DSKY	
2003904 HEAT TREATMENT HEAT ASBY USED ON APPLICATION		NASA APPROVAL DATE: 10/1/74 BY: [Signature] APPROVED: [Signature]		CODE SHEET NO. 80230 J NADA DRAWING NO. 2003917 SCALE 2/1 SHEET 1 OF 1	

20039 7

8 7 6 5 4 3 2 1

NOTES - THIS DRAWING IS A PRELIMINARY DRAWING AND IS NOT TO BE USED FOR FABRICATION OR FOR THE PURPOSE OF A QUALITY CONTROL PROGRAM. IT IS THE RESPONSIBILITY OF THE USER TO VERIFY THE DIMENSIONS AND TOLERANCES OF THE PARTS AND ASSEMBLIES BEFORE FABRICATION. THE USER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND ORIENTATION OF THE PARTS AND ASSEMBLIES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND ORIENTATION OF THE PARTS AND ASSEMBLIES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND ORIENTATION OF THE PARTS AND ASSEMBLIES.



NOTES

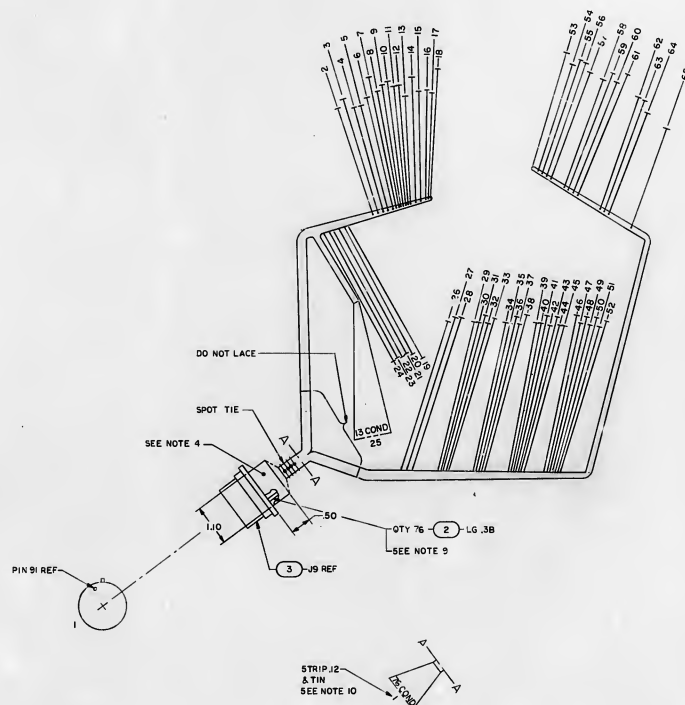
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 4 TO BE 15-20 INCH UNCES
3. ASSEMBLE FIND NO. 2 & FIND NO. 3 TO FIND NO. 1 PER ND1002136
4. SEAL FIND NO. 2, 3 & FIND NO. 4 TO FIND NO. 1 PER ND1002004, TYPE VI
5. MARK .05/.07 HIGH WHITE CHARACTERS PER ND1002019 & ND1002122 TYPE II, CLASS 2 USING INK 1006271-1. CENTRALIZE AS SHOWN
6. IDENTIFY WITH DRAWING NO. & REVISION PER ND1002019

1	2004039	TERMINAL, THREADED	4
12	1006782-6	CONTACT, WRAPOST-MALE, MINATURE	3
12	1006775	INSULATOR, WRAPOST-MALE, MINATURE	2
1	2004907-011	HEADER	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
011		LIST OF MATERIALS	

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>W.D. R. 10/1/65</i> DATE <i>10/1/65</i>		CHECKED <i>W.D. R. 10/1/65</i>	
APPROVAL <i>W.D. R. 10/1/65</i>		APPROVAL <i>W.D. R. 10/1/65</i>	
2003901		HEAT TREATMENT	
NEXT ASSY		USED ON	
APPLICATION		FINAL FINISH	
NASA APPROVAL <i>W.D. R. 10/1/65</i>		CODE IDENT NO. SIZE	
MIT APPROVAL <i>W.D. R. 10/1/65</i>		80230 D	
		SCALE 2/1	
		WT	
		SHEET 1 OF 1	

ASSEMBLY INFORMATION CHART									
FROM			DESCRIPTION				TO		
REMARKS	COND IDENT	STA NO.	DESTINATION	COLOR	AWG	FIND NO.	STA NO.	DESTINATION	REMARKS
	81	1	J-37	WHITE	26	1	15	J5-6	
	82	1	J9-B8				58	J3-27	
	83	1	J9-B7				56	J4-10	
	84	1	J9-B6				52	J2-11	
	85	1	J9-B1				16	J5-5	
	86	1	J3-28				25	J12-199	
	87	1	J9-B1				13	J5-3	
	88	1	J9-B9				11	J5-22	
	87	1	J9-B8				54	J4-8	
	89	1	J9-B9				57	J4-2	
	90	1	J9-B4	53	J4-12				
	91	1	J9-27	36	J4-B6				
	91	1	J9-B3	55	J4-11				
	91	1	J9-47	43	J3-B8				
	95	1	J9-14	2	J6-2				
	96	1	J9-4	22	J3-77				
	97	1	J9-15	7	J6-10				
	98	1	J9-12	25	J6-90				
	99	1	J9-32	6	J6-6				
	820	1	J9-26	38	J4-B5				
	82	1	J9-15	9	J6-1				
	822	1	J9-46	48	J2-B8				
	823	1	J9-B4	3	J6-11				
	824	1	J5-72	512	J3-B5				
	825	1	J9-5	21	J7-5				
	826	1	J9-3	42	J3-B9				
	827	1	J9-B6	60	J3-20				
	828	1	J9-11	29	J5-91				
	829	1	J9-33	59	J3-20				
	830	1	J9-25	31	J5-B6				
	831	1	J9-56	61	J3-21				
	832	1	J9-45	27	J6-B6				
	833	1	J9-79	25	J12-211				
	834	1	J9-71	46	J2-B6				
	835	1	J9-91	20	J3-7				
	836	1	J9-2	49	J1-9				
	837	1	J9-6	14	J5-13				
	838	1	J9-10	35	J4-90				
	839	1	J9-17	10	J5-20				
	840	1	J9-24	34	J4-9				
	841	1	J9-34	18	J5-21				
	842	1	J9-44	41	J3-B6				
	843	1	J9-49	25	J12-208				
	844	1	J9-70	50	J1-B6				
	845	1	J9-81	25	J12-212				
	846	1	J9-B8	19	J7-2				
	847	1	J9-7	24	J7-11				
	848	1	J9-9	31	J3-B9				
	849	1	J9-18	28	J6-B8				
	850	1	J9-23	37	J4-B9				
	851	1	J9-35	12	J5-11				
	852	1	J9-43	59	J3-91				
	853	1	J9-58	17	J5-1				
	854	1	J9-69	33	J5-B5				
	855	1	J9-78	25	J12-198				
	856	1	J9-21	23	J7-9				
	857	1	J9-36	6	J6-16				
	858	1	J9-22	45	J2-90				
	859	1	J9-48	25	J12-200				
	860	1	J9-42	50	J5-91				
	861	1	J9-77	25	J12-188				
	862	1	J9-68	44	J2-B9				
	863	1	J9-30	25	J12-180				
	864	1	J9-57	64	J2-1				
	865	1	J9-60	4	J6-3				
	866	1	J9-40	25	J12-193				
	867	1	J9-38	25	J12-194				
	868	1	J9-41	47	J2-B9				
	869	1	J9-75	25	J12-205				
	870	1	J9-67	32	J5-109				
	871	1	J9-60	3	J6-3				
	872	1	J9-64	65	J1-9				
	873	1	J9-63	25	J12-181				
	874	1	J9-65	25	J12-186				
	875	1	J9-62	63	J2-10				
	876	1	J9-66	49	J3-10				
				WHITE	26				

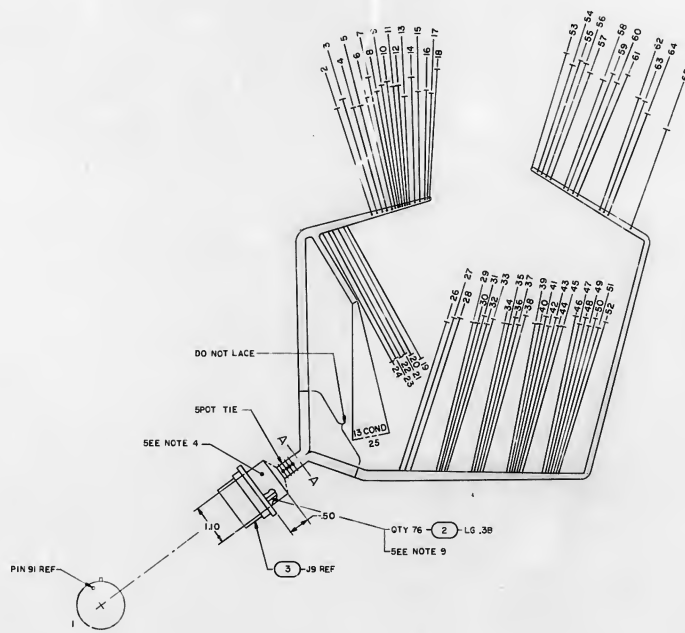
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. FABRICATE PER ND1002029
 3. STRIP ALL LEADS 1/2 AND DO NOT TIN UNLESS OTHERWISE SPECIFIED
 4. POT INDICATED AREA PER ND1002236
 5. AR DENOTES AS REQUIRED
 6. IDENTIFY WITH DRAWING NO. & REVISION PER ND1002019
 7. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN:
PREFIX DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
 8. LACE ENTER HEARTNESS CONFIGURATION UNLESS OTHERWISE SPECIFIED USING FIND NO. 4
DO NOT APPLY HEAT TREAT THAN 250° F TO FIND NO. 2
 9. LACE PER ND1002077 USING ND1002075



* DENOTES LENGTH IN FEET

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES		11-11 INSTRUMENTATION LAB DRAWN BY: <u>John C. Haggard</u> CHECKED BY: <u>John C. Haggard</u> APPROVED: <u>John C. Haggard</u>		LIST OF REVISIONS 1. <u>WIRING HAPPINESS, B.</u> 2. <u>HOUSTON, TEXAS</u>	
2003904 NEXT ASST APPLICATION		IT DOES NOT SCALE THIS DRAWING MATERIAL DATE TREATMENT FINAL FINGER		WIRING HAPPINESS, B. ASGC DESK CODE SENT NO 80230 SCALE 1:1 J	
		NASA APPROVAL: <u>[Signature]</u> UNIT APPROVAL: <u>[Signature]</u>		INSA DESK 2003	

ASSEMBLY INFORMATION CHART									
MARKS	FROM		DESCRIPTION				TO		REMARKS
	COND IDENT	STA NO.	DESTINATION	COLOR	AWG	FIND NO.	STA NO.	DESTINATION	
	B1		J9-37	WHITE	26	1	15	J5-6	
	B2		J9-69				58	J3-12	
	B3		J9-87				56	J4-10	
	B4		J9-86				62	J2-11	
	B5		J9-91				16	J5-5	
	B6		J9-28				25	J12-199	
	B7		J9-61				13	J5-3	
	B8		J9-59				11	J5-2	
	B9		J9-68				54	J4-8	
	B10		J9-69				57	J4-2	
	B11		J9-54				53	J4-12	
	B12		J9-27				36	J4-86	
	B13		J9-83				59	J4-11	
	B14		J9-47				43	J3-85	
	B15		J9-14				5	J6-2	
	B16		J9-4				22	J7-2	
	B17		J9-15				7	J6-10	
	B18		J9-12				26	J6-90	
	B19		J9-32				2	J6-5	
	B20		J9-26				36	J7-65	
	B21		J9-55				8	J6-1	
	B22		J9-46				48	J2-85	
	B23		J9-84				3	J6-11	
	B24		J9-72				52	J1-85	
	B25		J9-5				21	J7-5	
	B26		J9-3				42	J3-89	
	B27		J9-16				50	J3-15	
	B28		J9-11				29	J1-38	
	B29		J9-33				69	J3-20	
	B30		J9-23				21	J3-86	
	B31		J9-66				61	J3-21	
	B32		J9-43				27	J6-86	
	B33		J9-78				25	J2-211	
	B34		J9-71				46	J2-86	
	B35		J9-1				20	J7-3	
	B36		J9-2				49	J4-90	
	B37		J9-6				14	J5-15	
	B38		J9-10				35	J4-90	
	B39		J9-17				10	J2-20	
	B40		J9-24				34	J4-91	
	B41		J9-34				18	J5-21	
	B42		J9-44				61	J3-86	
	B43		J9-49				25	J12-206	
	B44		J9-70				50	J4-86	
	B45		J9-51				25	J2-212	
	B46		J9-6				19	J7-2	
	B47		J9-7				24	J7-11	
	B48		J9-9				51	J1-89	
	B49		J9-18				28	J6-85	
	B50		J9-23				37	J4-89	
	B51		J9-35				12	J6-11	
	B52		J9-43				39	J3-91	
	B53		J9-56				17	J6-1	
	B54		J9-69				33	J5-85	
	B55		J9-76				25	J12-198	
	B56		J9-21				23	J7-9	
	B57		J9-36				6	J6-6	
	B58		J9-22				45	J2-90	
	B59		J9-46				25	J12-200	
	B60		J9-42				30	J5-90	
	B61		J9-77				25	J12-189	
	B62		J9-68				44	J2-91	
	B63		J9-30				25	J12-180	
	B64		J9-57				54	J2-1	
	B65		J9-50				4	J6-3	
	B66		J9-40				25	J12-193	
	B67		J9-36				25	J12-184	
	B68		J9-41				47	J2-89	
	B69		J9-76				25	J12-205	
	B70		J9-67				32	J5-89	
	B71		J9-90				9	J6-5	
	B72		J9-63				65	J1-3	
	B73		J9-43				25	J12-181	
	B74		J9-65				25	J12-186	
	B75		J9-62				63	J2-10	
	B76		J9-66				40	J3-90	



NOTES

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-Q-70327
- FABRICATE PER NDI02032
- STRIP ALL LEADS J12 AND DO NOT TIN UNLESS OTHERWISE SPECIFIED
- POT INDICATED AREA PER NDI02236
- AW DENOTES AS REQUIRED
- IDENTIFY WITH DRAWING NO. & REVISION PER NDI02019
- PARTIAL REFERENCE DESIGNATIONS ARE SHOWN: PREFIX DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
- LACE ENTIRE HARNESS CONFIGURATION UNLESS OTHERWISE SPECIFIED USING FIND NO.4
- DO NOT APPLY HEAT GREATER THAN 250°F TO FIND NO.2
- SOLDER PER NDI02071 USING NDI02075

* DENOTES LENGTH IN FEET

2003904		USED ON		HEAT TREATMENT		FINISH		APPLICATION	
UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES		FRACTIONS		DECIMALS		ANGLES	
DO NOT SCALE THIS DRAWING		MATERIAL		HEAT TREATMENT		FINISH		APPLICATION	
DRAWN BY: <i>[Signature]</i>		CHECKED BY: <i>[Signature]</i>		APPROVED BY: <i>[Signature]</i>		DATE: <i>[Date]</i>		SCALE: <i>[Scale]</i>	
NASS APPROVAL: <i>[Signature]</i>		NASS DESIG. NO.: 80230 J		NASS DRAWING NO.: 2003930		SHEET: 1 OF 1			

AR 101907-003	TAPE LACING	4
1 1006348-001	CONNECTOR, DECESTACLE	3
2 5 1006372-004	SLEEVING, INSULATION	2
142 1010807-22	WIRE, INSULATED	1

QTY	PART OR IDENTIFYING NO.	DESCRIPTION	UNIT
011		LIST OF MATERIALS	

MANNED SPACECRAFT CENTER	
--------------------------	--

WIRING HARNESS, BRANCHED	
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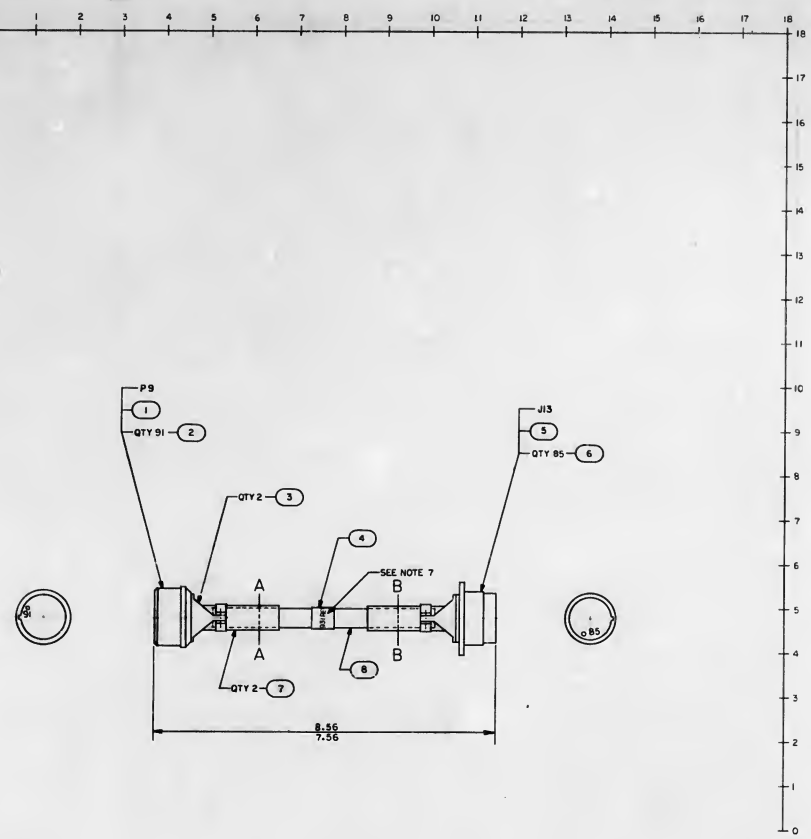
AGC DSKY	
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NASS APPROVAL: <i>[Signature]</i>	
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REVISIONS 203900
REVISED PER 167R 22310
DR 22310 CHN 02 02 74/6 11/64

ASSEMBLY INFORMATION CHART									
REMARKS	FROM			DESCRIPTION			TO		
	COND IDENT	STA NO.	DES	COLOR	AWG	FIND NO.	STA NO.	DES	REMARKS
	H1	1	J13-1	WHT	26	9	2	P9-1	
	H2	2	J13-2						
	H3	3	J13-3						
	H4	4	J13-4						
	H5	5	J13-5						
	H6	6	J13-6						
	H7	7	J13-7						
	H8	8	J13-8						
	H9	9	J13-9						
	H10	10	J13-10						
	H11	11	J13-11						
	H12	12	J13-12						
	H13	13	J13-13						
	H14	14	J13-14						
	H15	15	J13-15						
	H16	16	J13-16						
	H17	17	J13-17						
	H18	18	J13-18						
	H19	19	J13-19						
	H20	20	J13-20						
	H21	21	J13-21						
	H22	22	J13-22						
	H23	23	J13-23						
	H24	24	J13-24						
	H25	25	J13-25						
	H26	26	J13-26						
	H27	27	J13-27						
	H28	28	J13-28						
	H29	29	J13-29						
	H30	30	J13-30						
	H31	31	J13-31						
	H32	32	J13-32						
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	H66	66	J13-66						
	H67	67	J13-67						
	H68	68	J13-68						
	H69	69	J13-69						
	H70	70	J13-70						
	H71	71	J13-71						
	H72	72	J13-72						
	H73	73	J13-73						
	H74	74	J13-74						
	H75	75	J13-75						
	H76	76	J13-76						
	H77	77	J13-77						
	H78	78	J13-78						
	H79	79	J13-79						
	H80	80	J13-80						
	H81	81	J13-81						
	H82	82	J13-82						
	H83	83	J13-83						
	H84	84	J13-84						
	H85	85	J13-85						



REFERENCE DRAWING
1. 2005951 INTERCONNECTING DIAGRAM

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. FABRICATE PER NG100220
 3. STRIP ALL LEADS 15
 4. ALL DIMENSIONS AS REQUIRED
 5. IDENTIFY WITH PART NO. PER NG100220
 6. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THE DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION (P, B, H)
 7. MARK .060/.00 HIGH WHITE CHARACTERS PER NG100220
 8. MIL-1-631, TYPE F, FORM U, GRADE A, CLASS 1, AWG SIZE 1/2
 9. CRIMP PER NG1002206

* DENOTES LENGTH IN FEET

PART NO. 2003900 NAME: [blank] DATE: [blank] APPROVAL: [blank] BY: [blank]		PART OR IDENTIFYING NO. NAME: [blank] DATE: [blank] APPROVAL: [blank] BY: [blank]		PART OR IDENTIFYING NO. NAME: [blank] DATE: [blank] APPROVAL: [blank] BY: [blank]	
PART OR IDENTIFYING NO. NAME: [blank] DATE: [blank] APPROVAL: [blank] BY: [blank]		PART OR IDENTIFYING NO. NAME: [blank] DATE: [blank] APPROVAL: [blank] BY: [blank]		PART OR IDENTIFYING NO. NAME: [blank] DATE: [blank] APPROVAL: [blank] BY: [blank]	

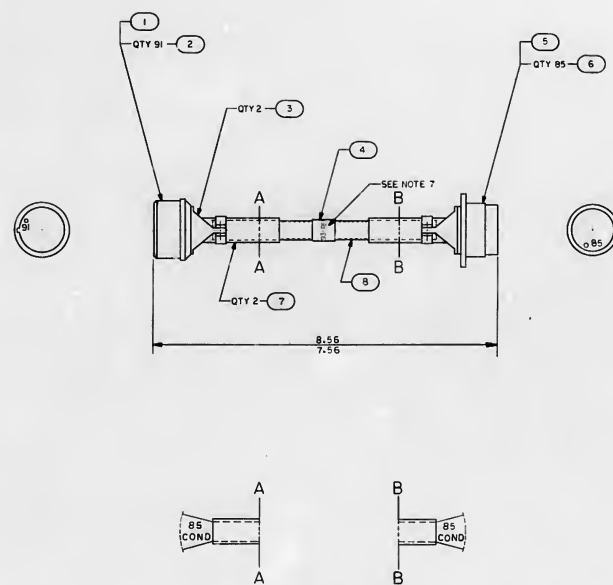
QTY	COND	PART OR IDENTIFYING NO.	NAME	DATE	APPROVAL	BY
1	85	COND	WIRE, ELEC			
2	85	COND	INSULATION SLEEVE			
1	85	COND	BUSHING, SLEEVE			
1	85	COND	CONTACT			
1	85	COND	CONNECTOR, RECEPTACLE, ELEC			
1	85	COND	STRAP, CABLE			
1	85	COND	CLAMP, CABLE			
1	85	COND	CONTACT			
1	85	COND	CONNECTOR, PLUG, ELEC			

MANUFACTURED BY
HUNTER, TEXAS
ADAPTER CABLE
AGC DSKY
2003900
2003931

THIS DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT AND IS LOANED TO YOU BY THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE ORDER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. IT IS TO BE RETURNED TO THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AFTER USE.

ASSEMBLY INFORMATION CHART									
REMARKS	FROM		DESCRIPTION				TO		REMARKS
	COND IDENT	STA NO	DES	COLOR	AWG	FIND NO	STA NO	DES	
	H1	1	J13-1	WHT	26	9	2	P9-1	
	H2		-2					-2	
	H3		-3					-3	
	H4		-4					-4	
	H5		-5					-5	
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0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-STD-883C.
 - FABRICATE PER NDI00202.
 - STRIP ALL LEADS .25
 - AP DIMENSIONS AS REQUIRED.
 - CLARIFY WITH DRAWING NO. & REVISION PER NDI00209.
 - PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THE DESIGNATION WITH UNIT NUMBER OF ASSEMBLY DESIGNATION OR BOTH.
 - MARK .060/.00 HIGH WHITE CHARACTERS PER NDI00209 CENTRALIZE AS SHOWN.

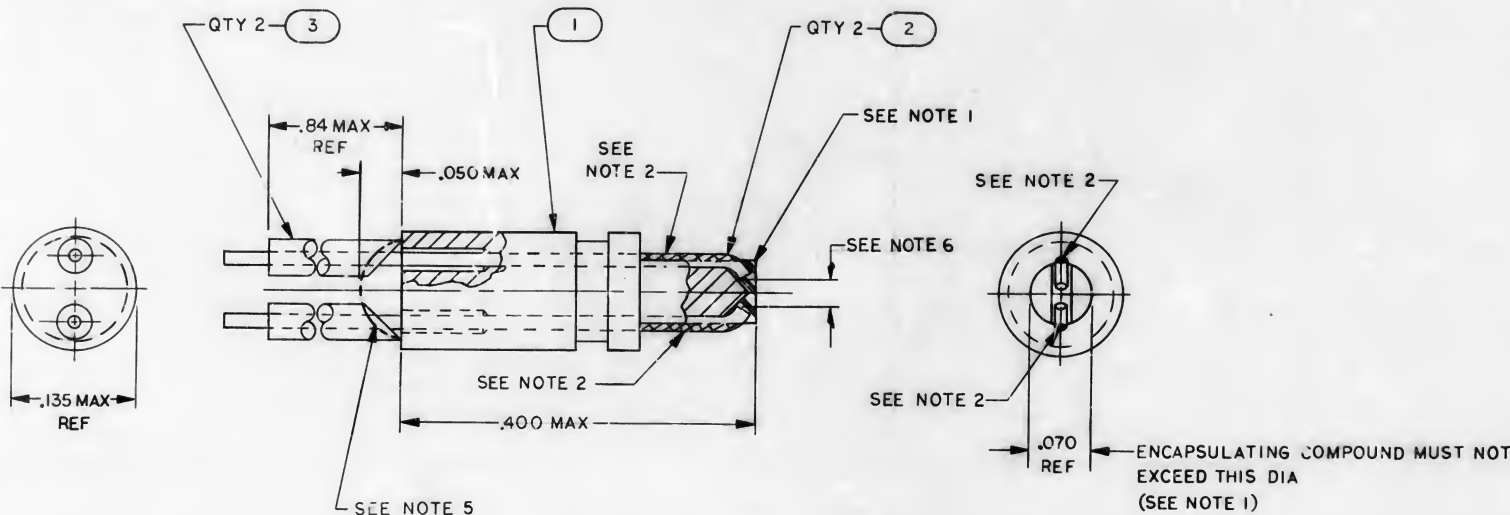
REFERENCE DRAWING
1. 2005951 INTERCONNECTING DIAGRAM

* DENOTES LENGTH IN FEET

N T Y INSTRUMENTATION LAB HOUSTON, TEXAS DATE: 10/1/81 CHECKED: [Signature] APPROVAL: [Signature]		MANNED SPACECRAFT CENTER HOUSTON, TEXAS ADAPTER CABLE AGC DSKY 2003931	
2003900 NEXT ASSY USED ON APPLICATION		COOL DRY NO. 80230 E SCALE: 1/1 SHEET 1 OF 1	

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SYM		ZONE		DESCRIPTION		DR	CHK	DATE	APPROVED
A				REVISED PER TDRR 22312		W.D.	W.D.	9/1/65	W.D.



NOTES

1. AREA TO BE FILLED PER ND1002004 TYPE IV
2. WIRE CONTACT AREA TO BE FREE OF EPOXY
3. IDENTIFY WITH PART NO. PER ND1002019
4. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
5. ENCAPSULATE AREA SHOWN USING 1006341 (RTV 112)
6. NO AIR VOIDS TOLERATED IN THIS AREA

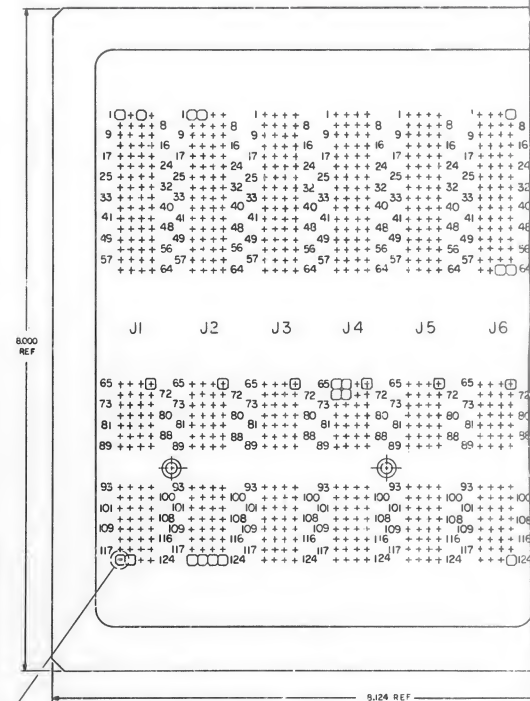
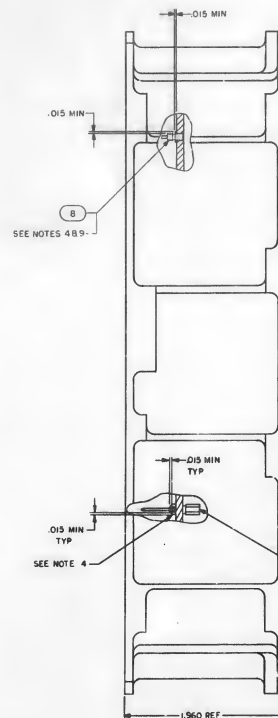
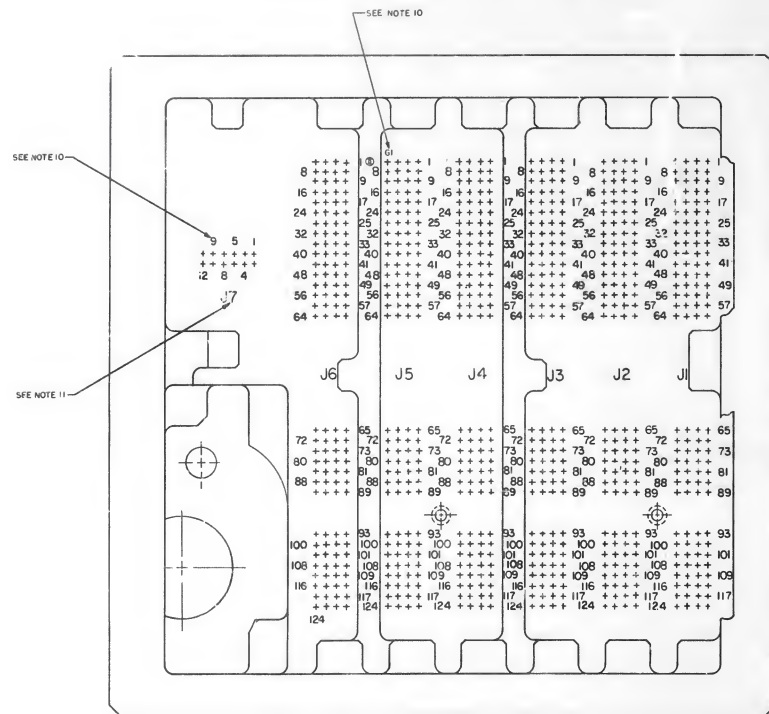
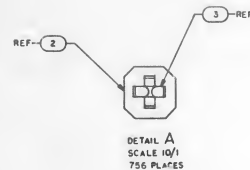
2	2004962		INSULATION, SLEEVING	3
2	2004966		WIRE, PLUG CONTACT	2
1	2004963		PLUG	1
QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>R.W. Simpson</i>	6 JUL 65	PLUG ASSEMBLY PUSH BUTTON SWITCH AGC DSKY	
CHECKED <i>R.W. Simpson</i>	10 JUL 65		
APPROVED <i>R.W. Simpson</i>	10 JUL 65		
APPROVED <i>W. H. Taylor</i>	2 JUL 65	CODE IDENT NO. 80230	SIZE C
APPROVED <i>W. H. Taylor</i>	2 JUL 65	DATE	DRAWING NO. 2003932
SCALE 10/1		SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING	
MATERIAL	
2003975	
NEXT ASSY	USED ON
APPLICATION	

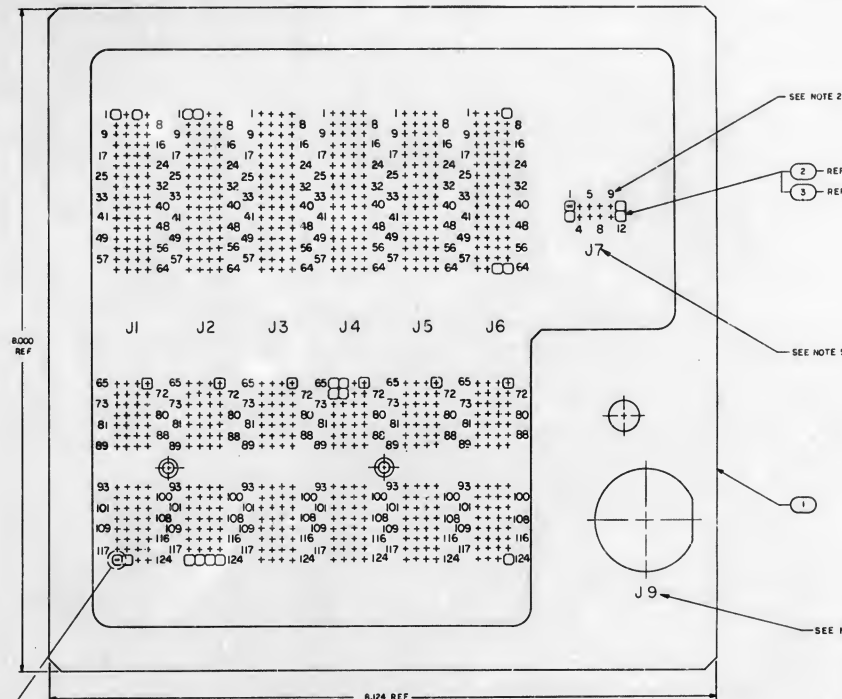
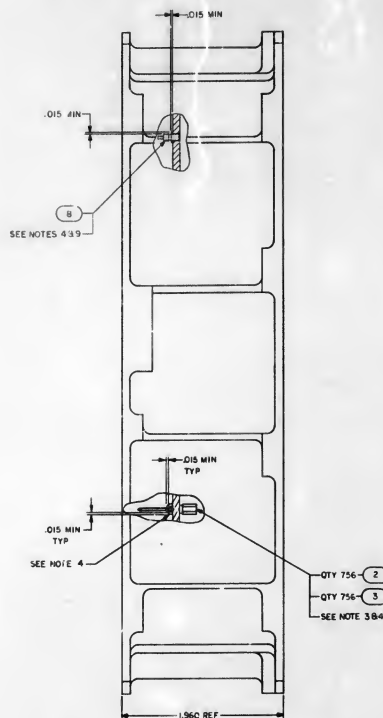
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G1		W 41-3	6	WHY	26	AR	32-3	
G2		W 45-3					33-9	
G3		W 48-3					36-9	
G4		W 42-10					35-10	
G5	SEE						35-10	SEE
G6	NOTE	W 46-6.5					33-9	NOTE
G7	8	W 44-6.5					35-6.5	
G8		W 46-6.5					37-6	
G9		W 48-6					42-6	
G10		43-6.5					44-6.5	
G11		45-6.5	6	WHY	26	AR	46-6.5	SEE NOTE 13

* DENOTES WIREWRAP MUST BE FIRST LEVEL



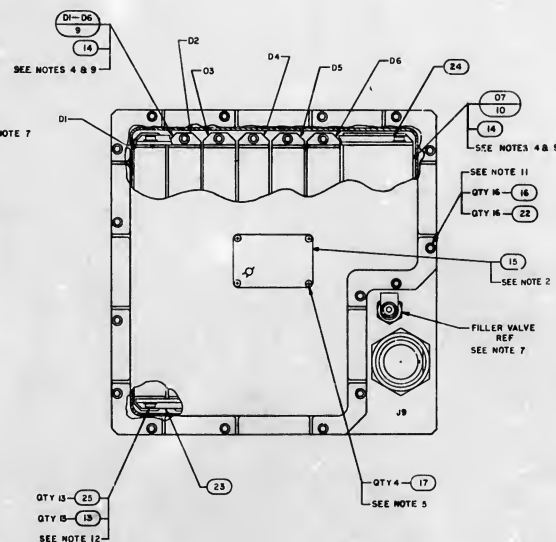
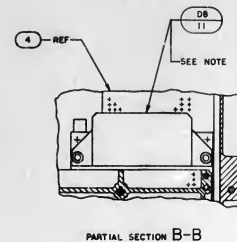
NOTES

- [illegible]

* DENOTES WIREWRAP MUST BE FIRST LEVEL

2004953	INTERCONNECTING DIAGRAM		REF
0205006	WIREWRAP CARD DECK		REF
1 2004040	TELEPHONE, TRASE-60	7	
2 1004018	TELEPHONE, BRU-CHINO	6	
3 1004007-22	WIRE, ELEC	7	
4 1004007-23	WIRE, VACUOST-FEMALE PLATE	7	
5 1006781-003	WIRE, ELEC	4	
6 1006781-4	WIRE, VACUOST-FEMALE	3	
7 1004075	WIRE, VACUOST-FEMALE	4	
8 1004075	PLATE, I/O	1	
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SCALE 1/1	SHEET 1 OF
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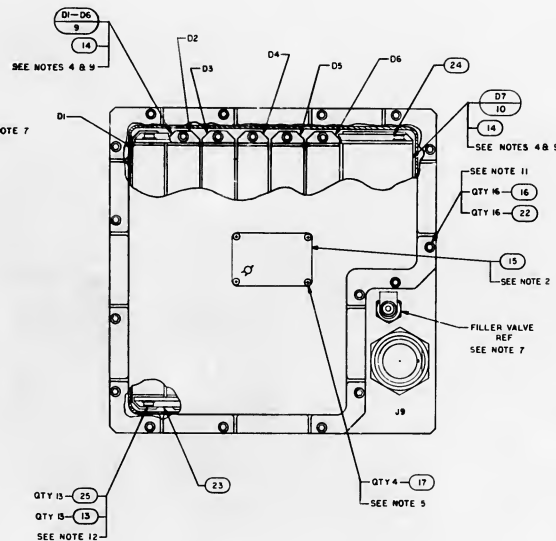
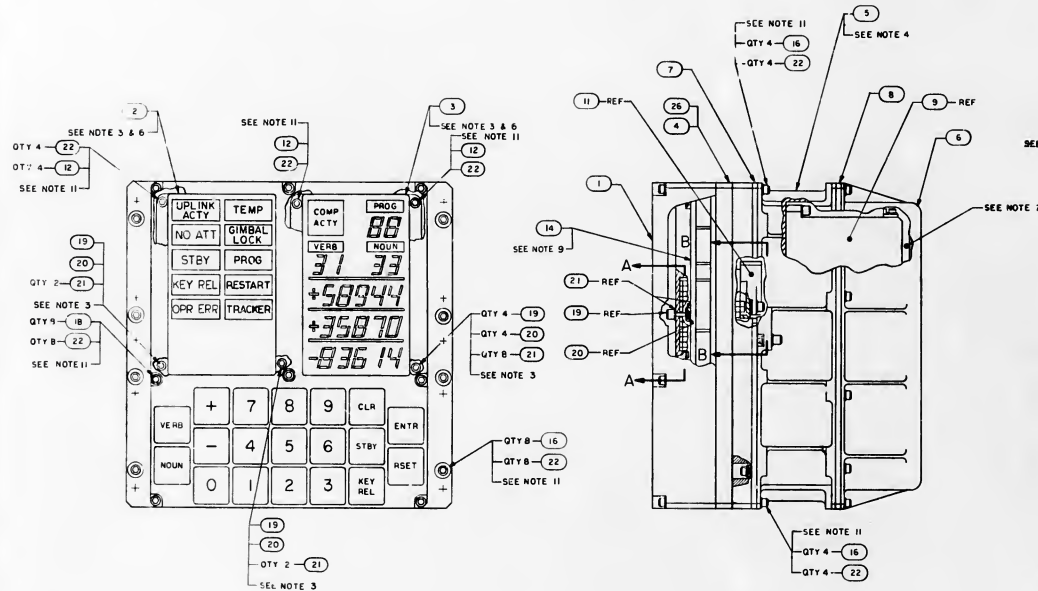
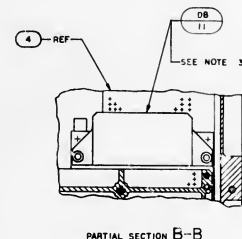
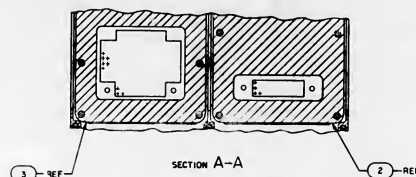
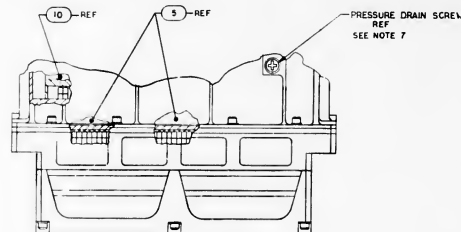
<input checked="" type="checkbox"/>	2003956	OUTLINE DRAWING	RE
<input checked="" type="checkbox"/>	2003957	SIGNAL PIN ASSIGNMENT	RE
<input checked="" type="checkbox"/>	2003953	INTERCONNECTING DIAGRAM	RE
<input checked="" type="checkbox"/>	2005918	SIGNAL FLOW DIAGRAM	RE

[illegible]

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-STD-70327
2. MARK JOINTS ASSEMBLY AND ITS RESPECTIVE PART NO., SERIAL NO. AND CONTRACT NO.
3. MARK JOINTS FOR VIBRODIPLOIN AND SERIAL NO. OF VIBRODIPLOIN
4. MOUNTING TORQUE FOR JACK SCREWS OF FINO NO. II TO BE 8.5-15 INCH POUNDS
4. MOUNTING TORQUE FOR FINO NO. 9 AND JACK SCREWS OF FINO NO. 10 TO BE 15-19 INCH POUNDS
5. FINO NO. 10 TO BE ASSEMBLED TO HEIGHT OF 2.5-2.673 INCH
6. FINO NO. 2 AND 3 TO BE ASSEMBLED TO HEIGHT OF BONDED NUMBER OF FINO NO. 4 USING FINO NO. 19. BEFORE INSTALLING FINO NO. 12, ASSEMBLY IN AN ENVIRONMENT HAVING A HUMIDITY OF 72-84% RELATIVE HUMIDITY
7. FILL WITH A MINIMUM OF 87% NITROGEN AND 0.7% HELIUM AND A MAXIMUM OF 4.3% AIR TO 105/10 ATMOSPHERES, DO NOT EXCEED 2 ATMOSPHERES DURING PRESURIZATION
8. PRESSURE OF 72-84% RELATIVE HUMIDITY TO BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF PS820350
9. APPLY FINO NO. 14 TO MATING SURFACES OF FINO NO. 4, 9 AND 10
10. DO NOT APPLY TO BONDED RIBS OF FINO NO. 4
11. IDAR DENOTES AS REQUIRED
12. MOUNTING TORQUE FOR FINO NO. 16, 18 AND 12 TO BE 8-9 INCH POUNDS
13. MOUNTING TORQUE FOR FINO NO. 13 TO BE 3.5-4.5 INCH POUNDS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CITY NORTHUMBRIA TOWN LAR		MAPPED SPACE CENTER HOUSTON TEXAS	
TOLERANCES ON FRACTIONS IN BRACKETS		SCALE AS SHOWN ON 11/1/71		AGC DSKY ASSEMBLY	
DO NOT SCALE THIS DRAWING MATERIAL		DESIGNED BY J. C. MITCHELL			
CHECK TREATMENT		FRESH APPROVAL J. C. MITCHELL		CHECK BODY NO. 1 80230 J	
NEXT ASBY USED ON		PANEL FRONT		ALISA DRAWING NO. 2003950	
APPLICATION		DET APPROVAL J. C. MITCHELL		SCALE 1/2" = 1"	
				SHEET NO. 1 OF 1	



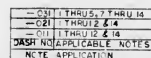
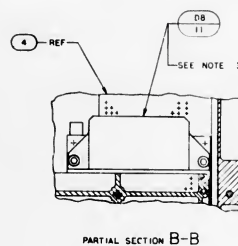
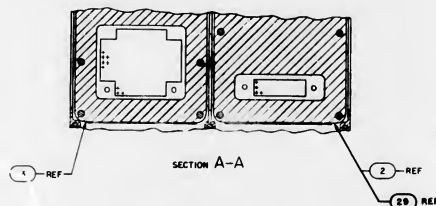
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MESH SIZE: 40/45/50/60 AND ITS RESPECTIVE PERCENT PERCENTUAL NO. 10 AND CONTRACT NO.
MATING: TO BE PER 902012/19 AND SERIALIZE PER 902012/23
3. MOUNTING TORQUE FOR FIND NO. 19 AND JAW SCREWS OF FIND NO. 11 TO BE 85-93 INCH POUNDS
4. MOUNTING TORQUE FOR FIND NO. 14 SCREWS OF FIND NO. 11 TO BE 10-12 INCH POUNDS
5. APPLY SEA LANT COMPUND MIL-S-22873 GRADE HTV TO FIND NO. 17
6. FIND NO. 1 AND 2 TO BE ASSEMBLED TO FIND NO. 18 RUBBER OF FIND NO. 4 OR FIND NO. 26 USING
FIND NO. 19. BEFORE INSTALLING FIND NO. 12, ASSEMBLY IN AN ENVIRONMENT HAVING A
TEMPERATURE OF 72°-75° AND A RELATIVE HUMIDITY OF 50% OR LESS
7. HOLD FOR A MINIMUM OF 87" OF NITROGEN AND OXYGEN AND A MAXIMUM
OF 43% AIR TO 105.10 ATMOSPHERES. DO NOT EXCEED 25 ATMOSPHERES DURING PRESURIZATION
8. COMPLETE ALL TESTING TO BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS
OF PS2003950
9. APPLY FIND NO. 14 TO MATING SURFACES OF FIND NO. 4, 9, AND 10
10. MATE TO BE TESTED SURFACES OF FIND NO. 4, 9, AND 10
11. DRAWING TENSILE AS REQUIRED
12. MOUNTING TORQUE FOR FIND NO. 16 AND 12 TO BE 8-9 INCH POUNDS
13. MOUNTING TORQUE FOR FIND NO. 18 TO BE 3.5-4.5 INCH POUNDS
14. MOUNTING TORQUE FOR FIND NO. 18 TO BE 3.5-4.5 INCH POUNDS

	2003956	OUTLINE DRAWING	RE
	2003957	SIGNAL PIN ASSIGNMENT	RF
	2003953	INTERCONNECTING DIAGRAM	RF
	2003918	SIGNAL FLOW DIAGRAM	RE

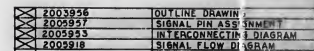
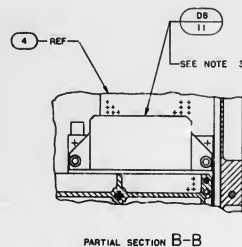
2003908-FL			FRONT HOUSING ASSY	26	
13	13	WASHER, FLT			
1	1	2003498-FL	BRACKET, MODULE	23	
1	1	2003499-FL	BRACKET, MODULE	24	
1	1	WASHER, FLT			
12	12	1000445-FL	WASHER, LFL	21	
6	6	M56533-3-014	RING, RETAINING	21	
1	1	2003494-FL	SCREW, HEX SOCKET HEAD	17	
0	0	100389-FL	SCREW, PAN HEAD, CRK, RECESSED	17	
4	4	1003496-FL	SCREW, PAN HEAD, CRK, RECESSED	17	
32	32	1003498-FL	SCREW, PAN HEAD, CRK, RECESSED	17	
1	1	1002460-20	NUTMATE	1	
AR	AR	1006879	SILICONE COMPOUND		
13	13	M56985-10	SCREW, HEX SOCKET HEAD	13	
6	6	1003959-20	SCREW, HEX SOCKET HEAD	13	
2	2	2003909-20	KEYBOARD MODULE ASSY	01	
6	6	1003909-20	KEYBOARD MODULE ASSY	01	
1	1	1003909-20	KEYBOARD MODULE ASSY	01	
6	6	1003992-01	INDICATOR BRACKET, RH-DR	6	
1	1	1003493	GASKET, BONDED, RUBBER	6	
1	1	1006350	GASKET, BONDED, RUBBER	6	
20	20	2003494-FL	COVER, FRONT	5	
1	1	2003995-01H	MAIN HOUSING ASSY	5	
2	2	2003949-01	FRONT HOUSING ASSY	1	
1	1	1006319	INDICATOR, ALARM	1	
1	1	1006387-001	INDICATOR, ALARM	2	
1	1	2004032-02	COVER, FRONT	1	
REF	REF				
DATA	DATA				
00	00	DESCRIPTION NO.	DESCRIPTION NO.	DESCRIPTION NO.	DESCRIPTION NO.

1

[illegible]

QTY	UNIT	NAME OR PART NO.	MANUFACTURE OF	DESCRIPTION	QTY
2003956		OUTLINE DRAWING			REF
2003957		SIGNAL PIN ASSIGNMENT			REF
2003958		INTERCONNECTING DIAGRAM			REF
2003959		SIGNAL FLOW DIAGRAM			REF
2003960	1-GI	INDICATOR, ALARM (COLEMAN)			
2003961	CS-1	FRONT HOUSING ASSY			
2003962	0745	COVER HINGE			
2003963	ON	FRONT HOUSING ASSY			26
13	13	WASHER PLATE			27
13	13	WASHER PLATE			28
13	13	WASHER PLATE			29
13	13	WASHER PLATE			30
13	13	WASHER PLATE			31
13	13	WASHER PLATE			32
13	13	WASHER PLATE			33
13	13	WASHER PLATE			34
13	13	WASHER PLATE			35
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13	13	WASHER PLATE			38
13	13	WASHER PLATE			39
13	13	WASHER PLATE			40
13	13	WASHER PLATE			41
13	13	WASHER PLATE			42
13	13	WASHER PLATE			43
13	13	WASHER PLATE			44
13	13	WASHER PLATE			45
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13	13	WASHER PLATE			47
13	13	WASHER PLATE			48
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13	13	WASHER PLATE			98
13	13	WASHER PLATE			99
13	13	WASHER PLATE			100

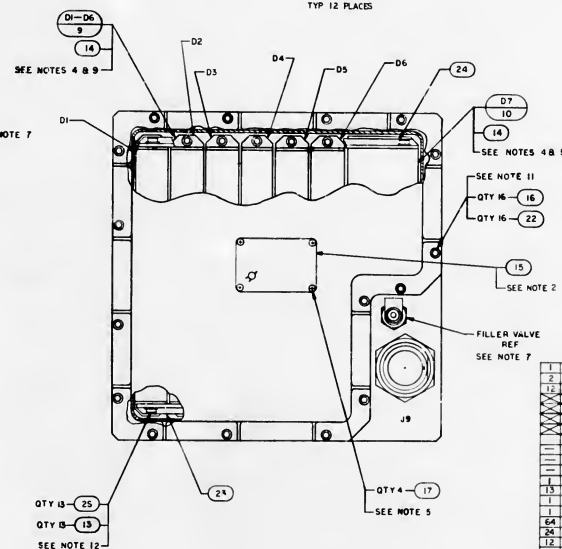
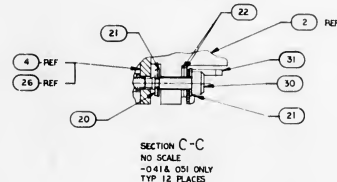
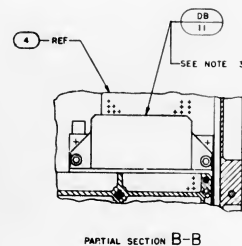
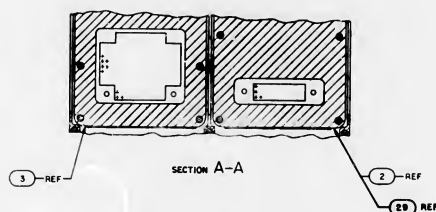
		UNIT 1		MANMED SPACECRAFT CENTER	
		INVESTIGATION: L & D		HOUSTON TEXAS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DATE: 2/25/68		PROJECT: 2003950	
FRACTIONS DECIMALS ANGLES		DRAWN BY: [Signature]		AGC DSKY ASSEMBLY	
DO NOT SCALE THIS DRAWING MATERIAL		CHECKED BY: [Signature]			
		APPROVED BY: [Signature]			
WEAT TREATMENT		COOK RELY NO		MESA DRAWING NO	
NEAT APPR		806230		2003950	
USED ON		SCALE 1" = 1"		SHEET 1 OF 1	
APPLICATION		SET APPROVAL			



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAKE JAW ASSEMBLY AND ITS RESPECTIVE PART NO., SERIAL NO., AND CONTRACT NO.
3. IDENTIFY PART NO. AND SERIAL NO. OF EACH COMPONENT
4. MOUNTING TORQUE FOR FINO NO. 19 AND JACK SCREWS OF FINO NO. 12 TO BE .85-.95 INCH POUNDS
5. MOUNTING TORQUE FOR JACK SCREWS OF FINO 5, 9 & 10 TO BE 15-19 INCH POUNDS
6. FINO NO. 12 TO BE COMPOUND FILED S.S.-22473
7. FINO NO. 2 & 3 TO BE ASSEMBLED TO HEIGHT OF BONDED NUMBER OF FINO NO. 4 USING FINO NO. 18. BEFORE INSTALLING FINO NO. 12, ASSEMBLE IN AN ENVIRONMENT HAVING A HUMIDITY OF 10% OR LESS
7. FILL WITH A MINIMUM OF 87% NITROGEN AND 0.7% HELIUM AND A MAXIMUM OF .4% AIR TO 105/10 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
8. TEST FOR LEAKS USING HELIUM GAS TESTED IN ACCORDANCE WITH SHAL-MET. ALL THE REQUIREMENTS OF PR2030350
9. APPLY FILM TO 12A. MATING SURFACES OF FINO NO. 4, 9 AND 10
10. DO NOT APPLY TO BONDED SURFACE OF FINO NO. 4
- 10AR DENOTES AS REQUIRED
11. MOUNTING TORQUE FOR FINO NO. 14, 18 AND 12 TO BE 8-9 INCH POUNDS
12. MOUNTING TORQUE FOR FINO NO. 13 TO BE 35-45 INCH POUNDS

1	20039957	OUTLINE DRAWING
2	20039958	SIGNAL PIN ASSY
3	20039959	INTERCONNECT DIAGRAM
4	20039918	SIGNAL FLOW CHART
5		
13	NA56204	WASHER, FLAT
14	20043958	BRACKET, MODUL
15	20043959	FLAT, T. MODULE
16	NA552006	WASHER, FLAT
17	10240454-59	WASHER, FLAT
18	MS3434-4014	SCREW, TAPPING
19	20044932-001	SCREW, JACKING
20	0004983-59	SCREW HEX SOCKT
21	MS15204-1	SCREW, PART HEAD
22	MS18995-18	SCREW HEX SOCKT
23	1004240-20	NUT, PLATE
24	MS18995-18	SCREW, TAPPING
25	MS18995-18	SCREW HEX SOCKT
26	MS18995-18	SCREW HEX SOCKT
27	20043959-01	SCREW, PART HEAD
28	20039901-01	POWER SUPPLY AS
29	20043959-01	INDICATOR, POWER
30	20043959-01	GASKET, BONDED
31	20043959-01	GASKET, BONDED
32	20043959-01	MAIN HOUSING ASY
33	20043949-01	FRONT HOUSING
34	20043915	INDICATOR, DIGIT
35	10043638	INDICATOR, ALARM
36	2004943-01	COVER, FRONT
37		
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON FRACTIONS DECIMALS ANGLES		0111	MTV INSTRUMENTATION L&B	LAST OF MARCH 2003 PROJECT TEAM
DO NOT SCALE THIS DRAWING EITHER		CHANGED BY: [Signature] DATE: 02/20/03 BY: [Signature] DATE: 02/20/03	AGC DSKY ASSEMBLY	
HEAT TREATMENT	HEAT TREATMENT	RESEA APPROVAL: A. C. MULLER	CODE BENT NO: 80230	RESEA DRAWING NO: 2003950
HEAT RES: USED ON	FEEL FINISH	SET APPROVAL: [Signature]	SIZE: 1/2	DATE: 02/20/03
APPLICATION			PT	1/2



1	1			2004739-001	COVER, FRONT	\$2
2	2			2003697-0A1	COVER ASSY	\$1
12	12			2004932-004	SCREW, JACKING	\$0
				2003956	OUTLINE DRAWING	REF
				2009957	SIGNAL PIN ASSIGNMENT	REF
				2009953	INTERCONNECTING DIAGRAM	REF
				2009918	SIGNAL FLOW DIAGRAM	REF

[illegible]

NOTES

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-80-7032Z
2. MARK DATA AS SHOWN AND ITS RESPECTIVE PART NO., SERIAL NO., AND CONTRACT NO.
3. WAS NO TO BE PER ADDED/32 AND SERIALIZE PER MIL-80-7032Z
4. MOUNT NO TORQUE FOR FINE NO.14 AND JACK SCREWS OF FINE NO.11,2,9,10 BE 15-19 INCH POUNDS
5. MOUNTING TORQUE FOR JACK SCREWS OF FINE NO.5,8,9,10 TO BE 15-19 INCH POUNDS
6. WAS NO TO BE PER ADDED/32 AND SERIALIZE PER MIL-80-7032Z
7. FULL FILL INSULATOR OF FINE NO.13 ON FINE NO.12 USING SILICONE COMPOUND PER 000954 PRIOR TO ASSEMBLY OF FINE NO.12
8. FINE NO.3 TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FINE NO.4 OR FINE NO.26 USING
9. FINE NO.1 BEFORE INSTALLING FINE NO.12
10. FILL WITH A MINIMUM OF 87% NITROGEN AND 87% HELIUM AND A MAXIMUM
OF 4.3% AIR TO 105 TO 100 ATMOSPHERES. DO NOT EXCEED 2 ATMOSPHERES DURING PRESSURIZATION
11. COMPLETE ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS
OF PDS00350
12. BAPPLY FINE NO.14 TO MATING SURFACES OF FINE NO.4,9,10,26,8,26
13. NOT ASSEMBLE TO BONDED RUBBER OF FINE NO.4,26,8,26
14. IO. AN O-RINGS AS REQUIRED
15. MOUNTING TORQUE FOR FINE NO.18 IS .18 IN. LB TO BE 8-9 INCH POUNDS
16. MOUNTING TORQUE FOR FINE NO.18 TO BE 15-18 INCH POUNDS
17. FULL FILL INSULATOR OF FINE NO.28 USING SILICONE COMPOUND PER 000954 PRIOR TO ASSEMBLY OF FINE NO.8
18. FINE NO.3 TO BE ASSEMBLED TO HEIGHT OF BONDED RUBBER OF FINE NO.28 USING FINE NO.19 BEFORE INSTALLING FINE NO.12
19. FINE NO.29 TO BE ASSEMBLED USING EXISTING JACKING SCREWS
20. THE PART NO. AND SERIAL NO. SHALL BE MARKED ON THE PART. A SIGNATURE AS SHOWN IN THE 303. CONFIGURATION SHALL
BE THE SAME AS THE KEY POSITION INDICATED.

-051	1 THRU 5, 7 THRU 12
-041	1 THRU 5, 7 THRU 12
-031	1 THRU 5, 7 THRU 14
-021	1 THRU 12 & 14
-011	1 THRU 12 & 14
DASH NO	APPLICABLE NOTES
NOTE APPLICATION	

DASH NO	APPLICABLE NOTES
NOTE APPLICATION	

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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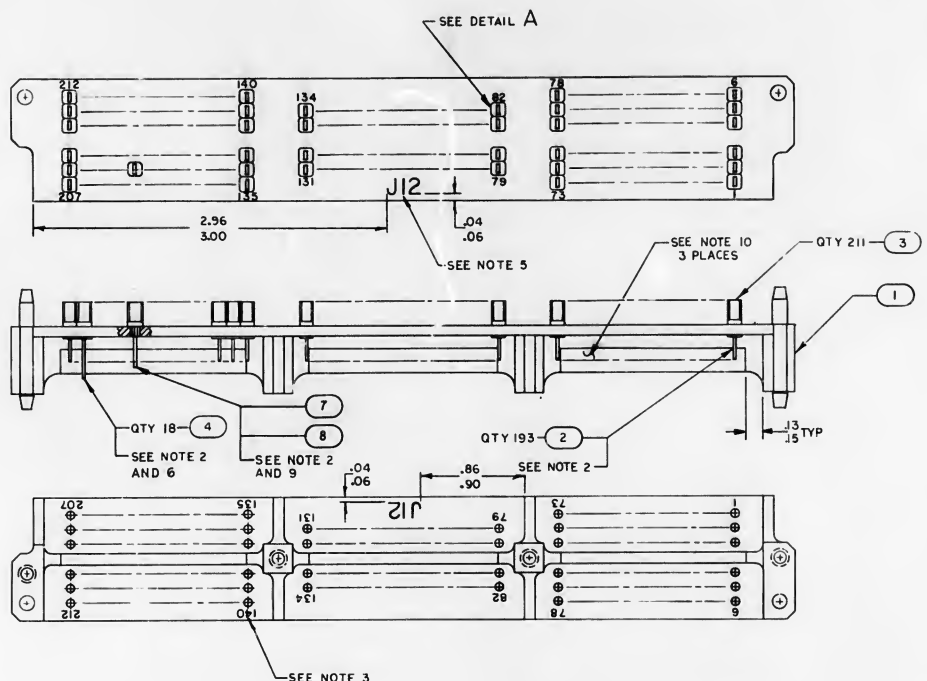
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D	2003951
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		REVISING		26205	
DATE	TIME	DATE	TIME	DATE	TIME
A		REVISED	PER TORR 27086	27086	27086
B		REVISED	PER TORR 27739	27739	27739
C		REVISED	PER TORR 26252	26252	26252
D		REVISED	PER TORR 32580	32580	32580

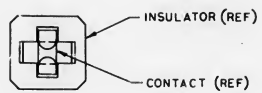
JUMPER LIST								
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
E1	↑ *	J12-186	5	WHT	26	AR	J12-191	↑
E2		J12-191	6	—			J12-197	
E3		J12-197	6	—			J12-203	
E4		J12-203	6	—			J12-202	
E5		J12-202	6	—			J12-201	
E6	SEE	J12-201	6	—			J12-207	SEE
E7	NOTE 7	J12-207	6	—			J12-208	NOTE 7
E8		J12-208	6	—			J12-209	
E9	* ↑	J12-181	5	WHT			J12-185	
E10		J12-185	5	WHT			J12-190	
E11		J12-190	6	—			J12-195	
E12		J12-195	6	—			J12-196	
E13	* ↑	J12-180	5	WHT			J12-179	
E14	* ↑	J12-166	6	—			J12-165	
E15	* ↑	J12-183	6	—			J12-177	
E16	* ↑	J12-166	6	—			J12-163	
E15		J12-183	6	WHT			J12-177	
E16		J12-177	5	WHT			J12-19	**
E17	* ↑	J12-19	5	WHT	26	AR	J12-184	**

* DENOTES MUST BE FIRST LEVEL
** DENOTES JUMPERS NOT TO BE INCORPORATED ON -021 CONFIGURATION



NOTES

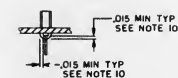
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO.2,3,4,7 & 8 TO FIND NO.1 PER NDIO02136
3. MARK .05/.07 HIGH BLACK CHARACTERS LOCATE APPROX AS SHOWN PER NDIO02019 AND NDIO02122
TYPE II,CLASS 2 USING INK IO06271-II
4. IDENTIFY WITH PART NO. PER NDIO02019
5. MARK .10/.14 HIGH BLACK CHARACTERS PER NDIO02019 AND NDIO02122,
TYPE II,CLASS 2 USING INK IO06271-II
6. FIND NO.4 TO BE INSTALLED AT PIN POSITIONS 207, 180,190,191, 181, 185, 195,197,
201,202,203, 186, 208,166,171,183,177 & 19
7. WIRE WRAP USING JUMPER LIST PER NDIO02031 EXCEPT FIND NO.5 TO HAVE; 5 MIN TO 8 MAX TURNS
OF UNINSULATED WIRE; 1/2 TO 1 1/2 TURNS OF INSULATED WIRE; STRIP LENGTH OF 1.18 TO 1.00;
AND A STRIP FORCE OF 6 LB MIN. AND FIND NO. 6 TO HAVE 6 MIN TO 8 MAX TURNS OF BARE
WIRE AND A STRIP FORCE OF 6 LB MIN
8. AR DENOTES AS REQUIRED
9. INSTALL FIND NO. 7 AND 8 IN PIN POSITION 184
10. APPLY TAPE PER MIL-T-23594, TYPE I, 1/2 INCH WIDE, TO INDICATED
SURFACES. CENTRALIZE AS SHOWN



DETAIL A
SCALE 10/1
212 PLACES

AR	—	MIL-T-25594	SEE NOTE	O	TAPE, INSULATION	9
I	1	1008818-002		S	SLEEVE, GROUNDING	8
I	1	100818-005		W	CONTACT, WRAPOST, FEMALE, GRD	7
AR	AR	W-543 TYPE S		WIRE, AWG 26, SOFT COATED (Q)	6	
AR	AR	1010807-22		WIRE, ELECTRICAL	5	
18	18	100681-2		CONTACT, WRAPOST, FEMALE	4	
21	21	1006774		INSULATOR, WRAPOST, FEMALE	3	
193	193	1006781-1		CONTACT, WRAPOST, FEMALE	2	
		2004933-011		PLATE, CONNECTOR	1	
QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD
021	011	001	001	001	001	001
EST. OF MATERIALS						

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NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-87-70327
2. AR DENOTES AS REQUIRED
3. WIRE WRAP PER WIRING LEGEND AND PER NID002031 EXCEPT FIND 8 TO HAVE 5 MIN TO 7 MAX TURNS OF UNSHULDED WIRE TO 1/2 TURNS OF INSULATED WIRE, STRIP LENGTH OF LBR TO L00 AND A STRIP FORCE OF 5 LB MIN
4. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH NID002069
5. WELD PER NID002005
6. GRESS AND TRIM AND NO PER NID002099 METHOD C
7. IDENTIFY WITH PART NO. PER NID002019
8. ENCAPSULATE PER NID002236
9. GRESS KINES TAPE TO THE FASTENING AREA UNDER FIND N02 AND FIND N03 USING FIND N10
10. SEAL INSULATORS OF FINDNO 2 AND 3 PER NID00204 TYPE XVI
11. MOUNTING TORQUE OF FIND N04 AND FIND N06 TO BE 1/2 INCH POUNDS

QTY	DESCRIPTION	UNIT	PRICE	TOTAL
1	101257-001	TAPE, LACING AND TYPING		
4	1045622C-6L	WASHER, FLAT		
1	10100870-22	WIRE, ELECTRICAL INSULATED		
1	1006376E-003	WING, ELECTRICAL INSULATED		
1	1015109-01	SCREW, SOCKET HEAD		
2	1045622C-4L	WASHER, FLAT		
4	2004938	PIN, ALIGNMENT		
1	2003558-01	CONNECTOR PLATE ASSEMBLY		
1	1013987-011	CONNECTOR PLATE ASSEMBLY		
1	2004919-021	PLATE, ADAPTER		
QTY	PART OR	DESCRIPTION	PRICE	TOTAL
QTY	DESCRIPTION	UNIT	PRICE	TOTAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS (DECIMALS) ANGLES IN DEGREES		DATE: <u>12/10/88</u> BY: <u>DAVID C. HARRIS</u> DESIGNED BY: <u>DAVID C. HARRIS</u> DRAWN BY: <u>DAVID C. HARRIS</u> APPROVED: <u>DAVID C. HARRIS</u> DATE: <u>12/10/88</u> BY: <u>DAVID C. HARRIS</u>		MANUFACTURING CENTER HOUSTON, TEXAS ADAPTER PLATE ASSY AGC DSKY	
2003949	REPT. TREATMENT	USER CH	DATE: <u>12/10/88</u>	SIZE	REVISIONS (DATE)
REPT. ASST	FINAL FURNISH	APPROVAL	802308	E	2003959
APPROVAL			DATE: <u>12/10/88</u>	BY	DRW: <u>DAVID C. HARRIS</u>

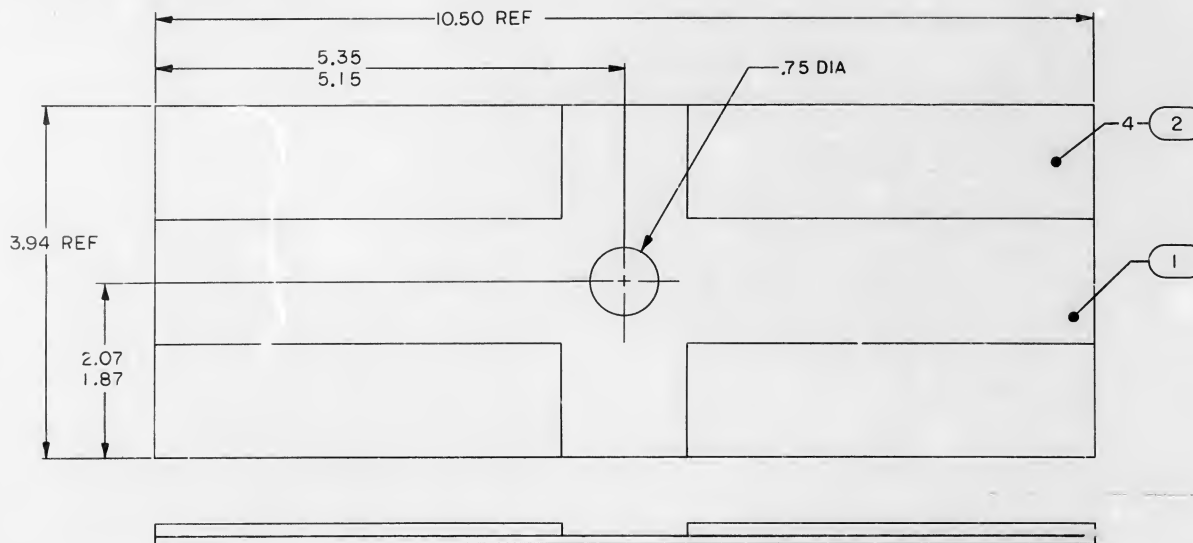
LEAD ELECTRICAL								
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
D1		J10-1	7	BLUE	30	AR	TBI-71	
D2		-2					-14	
D3		-5					-69	
D4		-4					-41	
D5		-5					-77	
D6		-7					-79	
D7		-7					TBI-72	
D8		-8					TB2-75	
D9		-9					-91	
D10		-11					-86	
D11		-11					-84	
D12		-12					-90	
D13		-13					-82	
D14		-14					TB2-81	
D15		-15					TBI-62	
D16		-16					-56	
D17		-17					-50	
D18		-18					-65	
D19		-19					-74	
D20		-20					-86	
D21		-21					TBI-84	
D22		-22					TB2-71	
D23		-23					TB2-65	
D24		-24					TB2-70	
D25		-25					TBI-76	
D26		-26					TB2-67	
D27		-27					TB2-83	
D28		-28					TB2-86	
D29		-30					TBI-68	
D30		-30					TBI-57	
D31	SEE NOTE 3	-37					TBI-67	SEE NOTE 5
D32		-38					TB2-74	
D33		-39					TB2-67	
D34		-40					TB2-77	
D35		-41					TBI-42	
D36		-42					TB2-69	
D37		-43					-62	
D38		-44					-86	
D39		-45					-24	
D40		-46					-23	
D41		-53					-34	
D42		-56					TB2-33	
D43		-55					TBI-30	
D44		-56					TB2-37	
D45		-57					-57	
D46		-58					-50	
D47		-59					-22	
D48		-60					-86	
D49		-67					-39	
D50		-68					TB2-44	
D51		-69					TBI-25	
D52		-70					TB2-51	
D53		-71					TB2-43	
D54		-72					TB2-55	
D55		-73					TBI-37	
D56		-74					TBI-54	
D57		-81					TB2-27	
D58		-82					-52	
D59		-83					-58	
D60		-84					TB2-32	
D61		-85					TBI-31	
D62		-86					TB2-49	
D63		-87					TB2-31	
D64		-88					TB2-36	
D65		-85					TBI-83	
D66		-96					-24	
D67		-97					-85	
D68		-98					-23	
D69		-99					-19	
D70		-100					-60	
D71		-101					-35	
D72		J10-102	7	BLUE	30	AR	TBI-21	

LEAD ELECTRICAL								
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
D73		-102	7	BLUE	30	AR	TB2-69	
D74		-110					TB1-18	
D75		-111					TB1-36	
D76		-112					TB2-98	
D77		-113					TB2-94	
D78		-114					TB2-97	
D79		-115					TB1-47	
D80		-116					-17	
D81		-123					-50	
D82		-124					-44	
D83		-125					TB1-45	
D84		-126					TB2-102	
D85		-127					TB2-101	
D86		-128					TB1-2	
D87		-129					-48	
D88		-130					-6	
D89		-137					-26	
D90		-138					-91	
D91		-139					-47	
D92		-140					TB1-15	
D93		-141					TB2-93	
D94		-142					TB1-B	
D95		-143					A-53	
D96		-144					-10	
D97		-146					-20	
D98		-147					-46	
D99		-148					-52	
D100		-149					-35	
D101		-150					-59	
D102	SEE NOTE 3	-151					-38	
D103		-152					40	
D104		-153					TB1-55	SET NOTE 5
D105		-154					TB2-63	
D106		-155					-30	
D107		-156					-25	
D108		-157					TB2-25	
D109		-158					TB1-66	
D110		-159					TB2-67	
D111		-160					TB1-82	
D112		-161					TB1-3	
D113		-163					-14	
D114		-162					-11	
D115		-163					-33	
D116		-164					-41	
D117		-165					-30	
D118		-166					-1	
D119		-117					-7	
D120		-118					-16	
D121		-119					-25	
D122		-120					-27	
D123		-121					TB1-34	
D124		-122					TB2-100	
D125		-103					-76	
D126		-104					-78	
D127		-105					-75	
D128		-106					-80	
D129		-107					-88	
D130		-108					-79	
D131		-89					TB2-96	
D132		-90					TB1-85	
D133		-91					TB1-75	
D134		-92					TB2-92	
D135		-93					TB1-13	
D136		-94					TB1-65	
D137		-76					TB2-39	
D138		-76					-14	
D139		-77					-36	
D140		-77					-78	
D141		-75					-82	
D142		-80					-28	
D143		-80					-41	
D144		-62	7	BLUE	30	AR	TB2-54	

LEAD ELECTRICAL								
COND IDENT	REMARKS	FROM	FIND NO.	COLOR	SIZE AWG	LENGTH	TO	REMARKS
D145		J10-63	7	BLUE	30	AR	TB2-1	
D146		J1-64					T-17	
D147		-66					-53	
D148		-66					-33	
D149		-67					-47	
D150		-68					-65	
D151	SEE NOTE 3	-69					-7	SEE NOTE 5
D152		-50					-64	
D153		-51					-50	
D154		-32					TB2-46	
D155		-31					TB1-70	
D156		-32					T-5	
D157		-33					-76	
D158		-34					-75	
D159		-35					T-61	
D160		J10-36	7	BLUE	30		TB1-9	
D161		J1-21	8	WHT	26		TB2-10	
D162		-1	8				T-103	
D163		-1					T-53	
D164		-22					TB2-15	
D165		-12					TB1-12	
D166		-2					TB2-48	
D167		-23					T-16	
D168		-15					-3	
D169		-3					-35	
D170		-34					-12	
D171		-4					-20	
D172		-13					-45	
D173		-25					T-19	
D174	SEE NOTE 3	-6					TB2-40	SEE NOTE 5
D175		-6					TB1-4	
D176		-36					TB2-13	
D177		-16					TB2-9	
D178		-14					TB1-22	
D179		-27					TB2-21	
D180		-17					TB2-16	
D181		-7					TB1-29	
D182		-38					TB2-2	
D183		-18					TB2-5	
D184		-8					TB1-55	
D185		-19					TB2-11	
D186		-19					T-6	
D187		-9					-85	
D188		-30					-4	
D189		-30					-8	
D190		J1-10	8	WHT	26	AR	TB2-6	

CITY / ZONE 11000		PART OR IDENTIFYING NO. 11000		NAME/NUMERICAL OR DESCRIPTION 11000		FROM / TO 11000	
		LIST OF MATERIALS 11000		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES NO MORE THAN TWO DECIMAL DIGITS.		I.T.V. INSTRUMENTATION LAB 11000		ADAPTER PLATE ASSY AGC DSSKY			
DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i>		I.T.V. INSTRUMENTATION LAB 11000		80230 E 2003959			
NEXT TREATMENT 11000		FINAL APPROVAL 11000		COAT / COLOR NO. 80230 E		SIZE 2003959	
NEXT ASSY 11000		MET APPROVAL 11000		REASON FOR 80230 E		SHEET 3 OF 3	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION TH T MAY IN ANY WAY BE RELATED THERETO.



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. BOND FIND NO. 2 TO FIND NO. 1 PER NDI002151

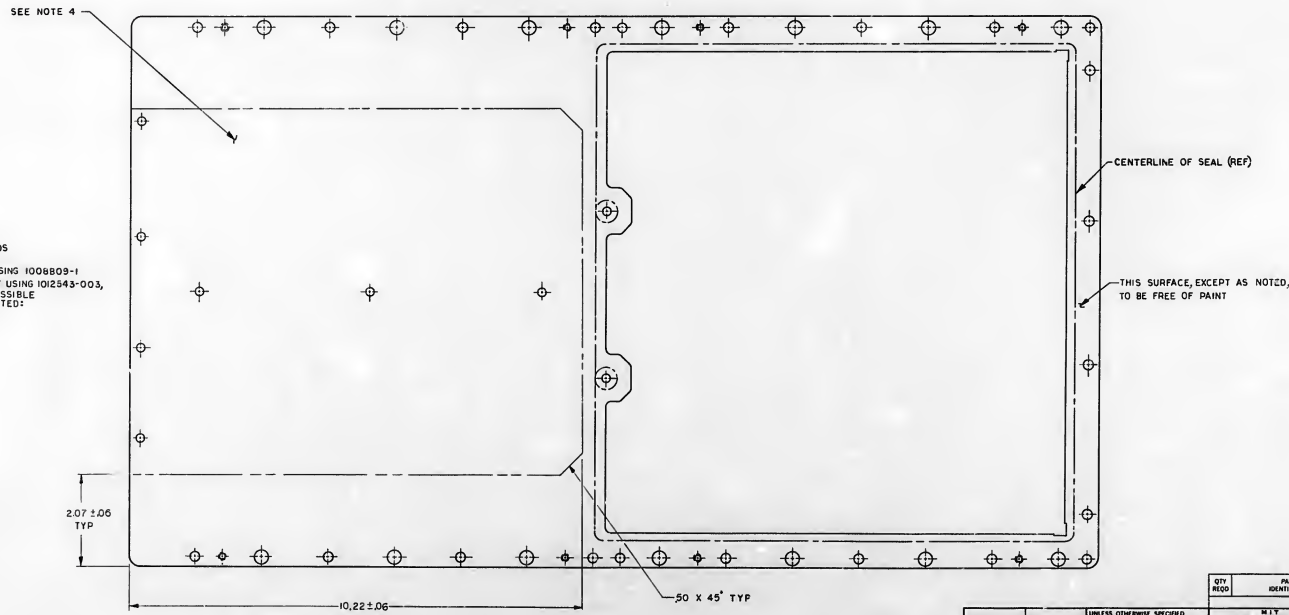
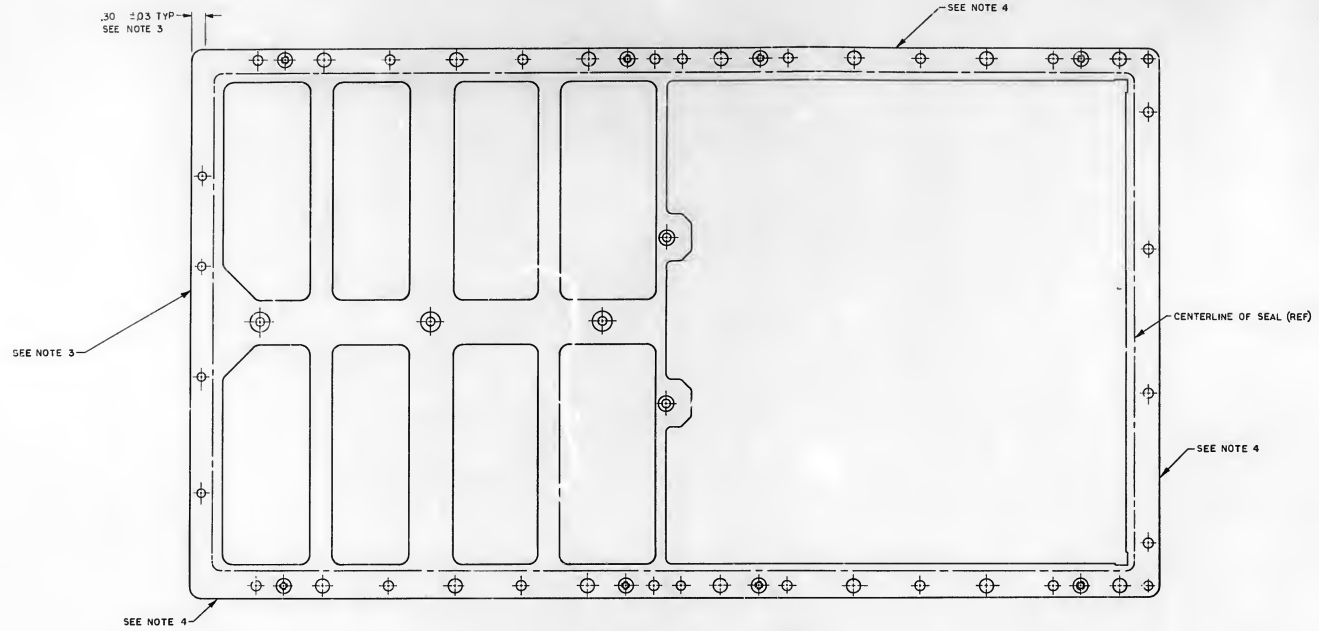
4	2004899-002		PAD, VIBRATION	2
1	2004899-003		PAD, VIBRATION	1
QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
-011				

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
2003200		MATERIAL		DRAWN <i>E. Whiting</i> 9FEB66		VIBRATION PAD ASSY AGC	
NEXT ASSY USED ON				CHECKED <i>W. Whiting</i> 10 FEB 66			
APPLICATION				APPROVED <i>J. P. Anderson</i> 10 FEB 66			
				APPROVED <i>Ellen C. Hall</i> 11 FEB 66			
				APPROVED <i>W. Whiting</i> 11 FEB 66		CODE IDENT NO. SIZE	
				APPROVED <i>G. Metzger</i>		80230 C	
				DATE		DRAWING NO. 2003970	
				SCALE 1/1		SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL		MIT INSTRUMENTATION LAB CHANDLER, MASS DRAWN <i>[Signature]</i> 8-23-68 CHECKED <i>[Signature]</i> 8-23-68 APPROVED <i>[Signature]</i> 8-23-68 APPROVED <i>[Signature]</i> 8-23-68		MANNED SPACECRAFT CENTER HOUSTON, TEXAS PUSH BUTTON SWITCH ASSEMBLY PLUG IN UNIT AGC DSKY	
2003953		APPROVED MIT <i>[Signature]</i> 8-23-68	CODE IDENT NO 80230	SIZE D	DRAWING NO. 2003974
NEXT ASSY	USED ON	APPROVED UNIT <i>[Signature]</i> 8-23-68	SCALE 3/1	SHEET	OF
APPLICATION					

REVISIONS
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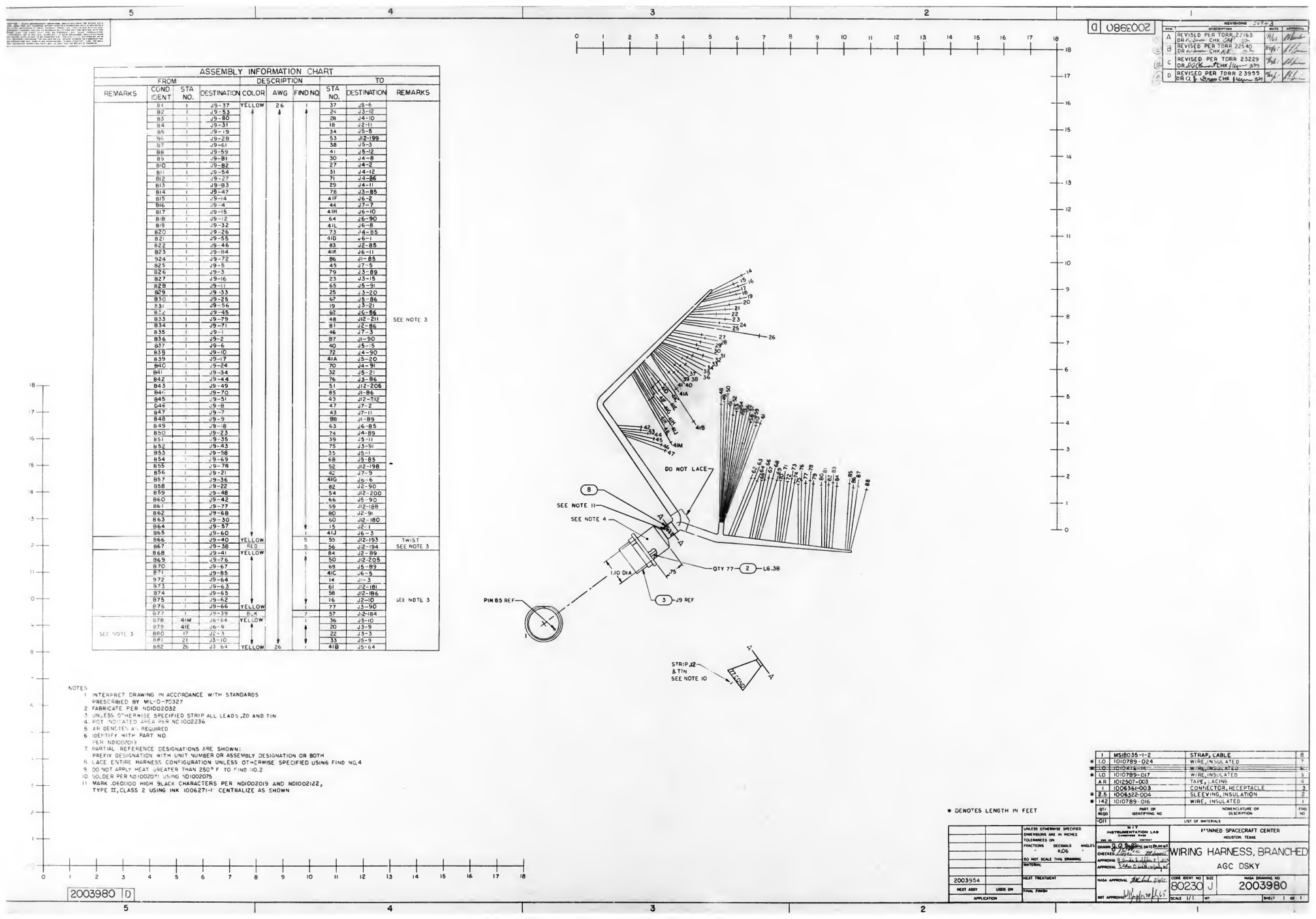
2003978



- NOTES
1. MATL: MAKE FROM 1006381-001
 2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 3. PAINT THIS EDGE INCLUDING RADI: PER ND1002279 USING 1008809-1 (DARK GRAY), FINAL COAT SURFACES PER ND1002277 USING 1012543-003, OVERLAPPING THE AL FILLED CLEAR EPOXY PERMISSIBLE
 4. APPLY THE FOLLOWING FINISHES TO SURFACES INDICATED:
PRIMER ONLY PER ND1002279 USING 1010992
PAINT AL FILLED CLEAR EPOXY PER ND1002289
 5. MASK ALL HOLES

QTY REQD		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION		FIND NO	
				LIST OF MATERIALS			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
		FRACTIONS DECIMALS ANGLES		HOUSTON, TEXAS			
		DO NOT SCALE THIS DRAWING		DRAWN BY: <i>[Signature]</i> DATE: 10/16/66		MID SPACER	
		MATERIAL		CHECKED BY: <i>[Signature]</i> DATE: 10/16/66		PAINTED ASSEMBLY	
		SEE NOTE 1		APPROVAL: <i>[Signature]</i> DATE: 10/16/66			
2003200		NEXT ASSY		NASA APPROVAL: <i>[Signature]</i> DATE: 10/16/66		CODE IDENT NO: 80230 E	
		USED ON		NASA DRAWING NO: 2003978		SHEET 1 OF 1	
APPLICATION		FINAL TENS		SCALE 1/1		WT	

MASTER

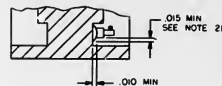


R9, R10

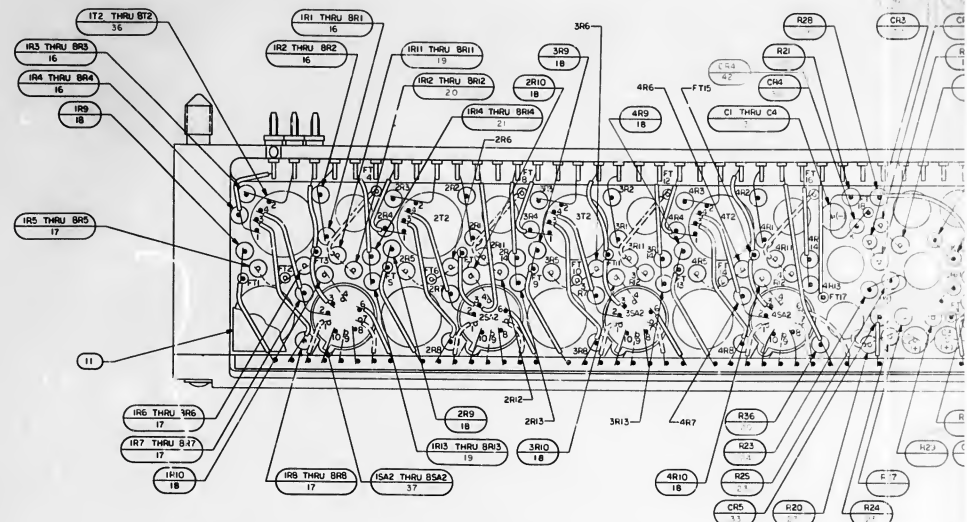
PART NO.	VALUE
1006750-25	510
-26	560
-27	620
-28	680
-29	750
-30	820
-31	910
-32	1K
-33	1.1K
-34	1.2K
-35	1.3K
-36	1.5K
-37	1.6K
-38	1.8K
-39	2.0K
-40	2.2K
-41	2.4K
-42	2.7K
-43	3.0K
-44	3.3K
-45	3.6K
-46	3.9K
-47	4.3K
-48	4.7K
-49	5.1K
-50	5.6K
-51	6.2K
-52	6.8K
-53	7.5K
-54	8.2K
-55	9.1K
-56	10K
-57	11K
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-65	24K
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-67	30K
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-69	36K
-70	39K
-71	43K
-72	47K
-73	51K
-74	56K
-75	62K
-76	68K
-77	75K
-78	82K
-79	91K
-80	100K
-81	110K
-82	120K
-83	130K
-84	150K
-85	160K
-86	180K
-87	200K
-88	220K
-89	240K
-90	270K
-91	300K
-92	330K
-93	360K
-94	390K
-95	430K
-96	470K
-97	510K
-98	560K
-99	620K
-100	680K
-101	750K
-102	820K
-103	910K
-104	1M
-105	1.1M
-106	1.2M
-107	1.3M
-108	1.5M
-109	1.6M
-110	1.8M
-111	2.0M
-112	2.2M
-113	2.4M
-114	2.7M
-115	3.0M
-116	3.3M
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-118	3.9M
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-140	33M
-141	36M
-142	39M
-143	43M
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-145	51M
-146	56M
-147	62M
-148	68M
-149	75M
-150	82M
-151	91M
-152	100M
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-154	120M
-155	130M
-156	150M
-157	160M
-158	180M
-159	200M
-160	220M
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-165	360M
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-168	470M
-169	510M
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-182	180M
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-188	330M
-189	360M
-190	390M
-191	430M
-192	470M
-193	510M
-194	560M
-195	620M
-196	680M
-197	750M
-198	820M
-199	910M
-200	100M

R23, R27, R32

PART NO.	VALUE
1006750-31	1K
-32	1.1K
-33	1.2K
-34	1.3K
-35	1.5K
-36	1.6K
-37	1.8K
-38	2.0K
-39	2.2K
-40	2.4K
-41	2.7K
-42	3.0K
-43	3.3K
-44	3.6K
-45	3.9K
-46	4.3K
-47	4.7K
-48	5.1K
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-54	9.1K
-55	10K
-56	11K
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-63	22K
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-69	39K
-70	43K
-71	47K
-72	51K
-73	56K
-74	62K
-75	68K
-76	75K
-77	82K
-78	91K
-79	100K
-80	110K
-81	120K
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-121	560K
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-124	750K
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-127	100K
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-144	510K
-145	560K
-146	620K
-147	680K
-148	750K
-149	820K
-150	910K
-151	100K
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-157	180K
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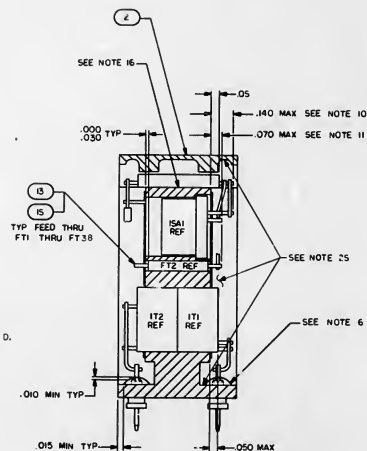


SECTION B-B

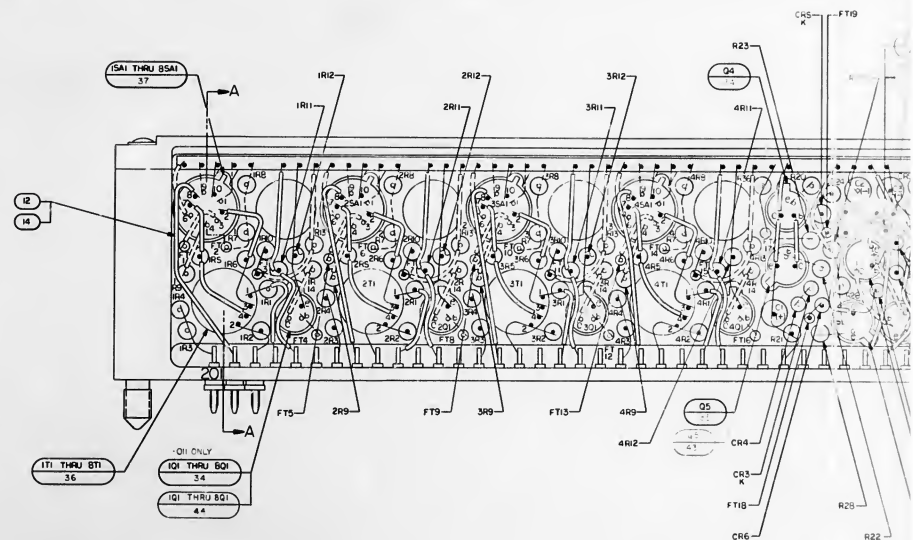


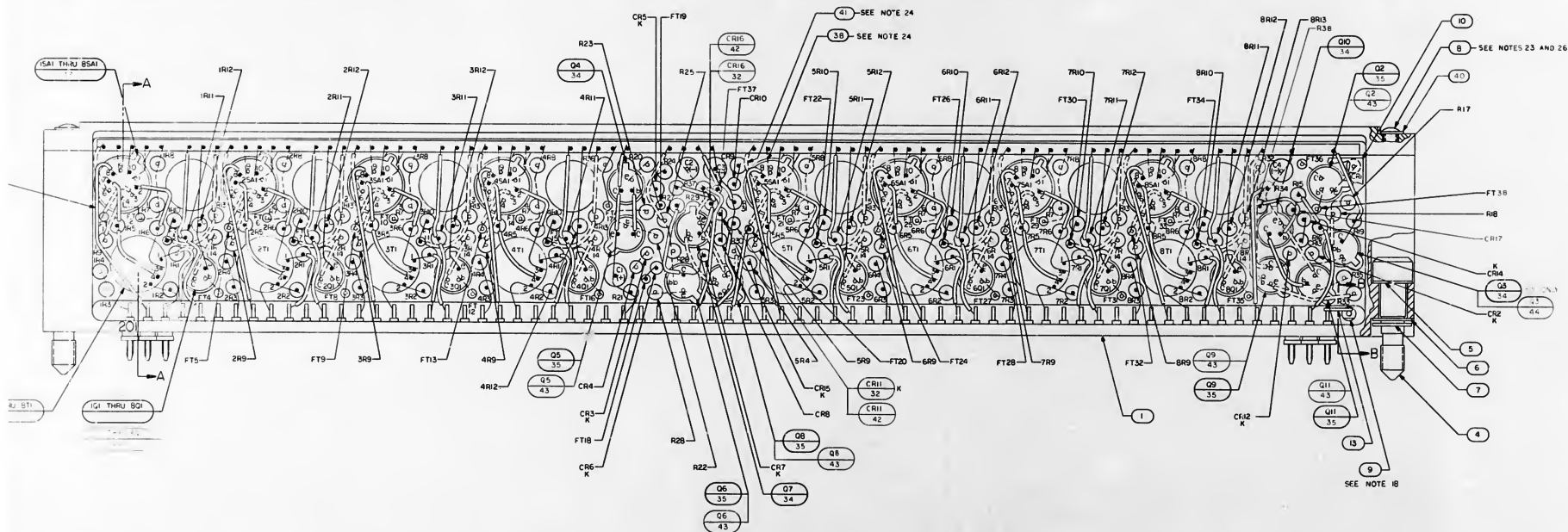
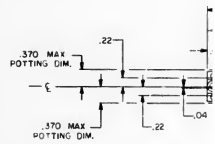
NOTES:

- INTERPHET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-Q-7037
- AR DENOTES AS REQUIRED
- FT DENOTES FEED THRU
- (H) DENOTES POSITIVE SIDE OF CAPACITOR
- K DENOTES CATHODE SIDE OF DIODE
- SEAL INSULATORS AND TERMINALS TO HEADER PER NDI002004, TYPE III
- MARK .10/.08 HIGH WHITE CHARACTERS PER NDI002019 AND NDI002122, TYPE II, CLASS 2 AND SERIALIZE PER NDI002023 USING INK 100671-1
- MARK .25/.24 HIGH WHITE CHARACTERS PER NDI002019 AND NDI002122, TYPE II, CLASS 2 USING INK 1006271-1
- UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH NDI002059
- BLACK DOT AND SINGLE SOLID LEADS INDICATE UPPER LEVEL WIRING
- WHITE DOT AND SINGLE DOTTED LEADS INDICATE LOWER LEVEL WIRING
- THE VALUES OF THE FOLLOWING COMPONENTS TO BE DETERMINED AT ELECTRICAL TEST R9,R10,R23,R27 AND R32 TO BE SELECTED FROM APPROPRIATE CHART
- STAKE FND NO.16 THRU FND NO.37 FND NO.42,43 AND 44 TO FND NO.1 PER NDI002009 METHOD C OR D
- ENCAPSULATE PER NDI002002. REMOVE FLASHING
- WELD PER NDI002005
- BOND FND NO.3 TO FND NO.1 PER NDI002004, TYPE I
- TRIM UNWELDED LEAD OF FND NO.37 .010/.030 FROM CASE
- MOUNTING TORQUE FOR FND NO.9 TO BE .15-20 INCH DUNCES
- COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH NDI002018 AND SHALL MEET ALL THE REQUIREMENTS OF PS-2001391
- CH7,B,15 AND CR2,15,14 ARE TO BE SELECTED BY ELECTRICAL TEST. ONE, TWO, OR THREE DIODES WILL BE SELECTED IN EACH AREA, IF LESS THAN THREE DIODES ARE REQUIRED, FND NO. 13 AND 15 WILL BE USED IN THE REMAINING COMPONENT HOLES AND WIRING WILL BE COMPLETED AS SHOWN
- SEAL FND NO.9 TO HEADER PER NDI002004, TYPE III
- ASSEMBLE FND NO.19 TO MODULE AFTER SELECTED VALUE HAS BEEN DETERMINED
- MOUNTING TORQUE FOR FND NO.8 TO BE 2.0-2.5 INCH POUNDS
- USE FND NO.15 & FND NO.14 WHERE APPLICABLE ON ALL FIRST LEVEL WIRING TO THE MATRIX
- COAT INDICATED SURFACES, BOTH ENDS, TOP AND BOTTOM, BOTH SIDES PER NDI002187, TYPE II
- APPLY MIL-S-22473, GRADE HV TO FND NO.8



SECTION A-A





[illegible]

REVISIONS <i>28820</i>							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
A		CHANGED PER TDRR 30753	<i>SM</i>	<i>PZ</i>	<i>9-2-66</i>	<i>SS</i>	
B		CHANGED PER TDRR 32350	<i>LM</i>	<i>JC</i>	<i>11/16/66</i>	<i>T.P.L.</i>	

[illegible]

FOR REFERENCE ONLY

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

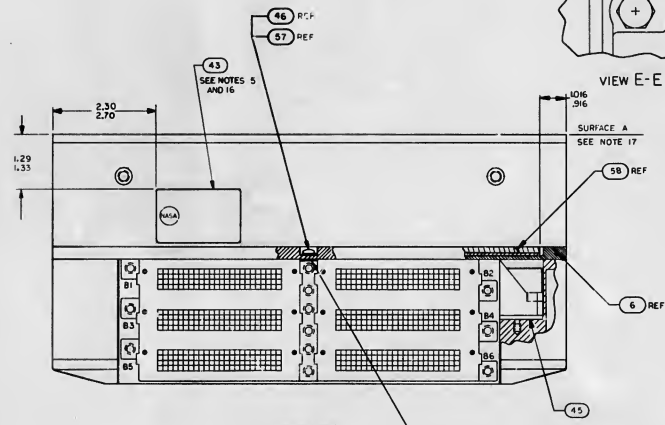
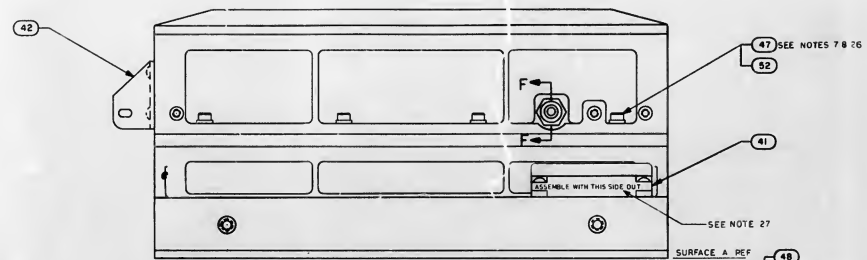
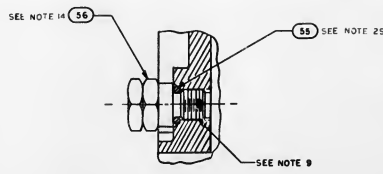
		CITY REQD		PART OR IDENTIFYING NO.		MATERIAL OR NOTES		NOMENCLATURE OR DESCRIPTION		FIND NO.			
		LIST OF MATERIALS											
		M I T INSTRUMENTATION LAB CAMBRIDGE, MASS				MANNED SPACECRAFT CENTER HOUSTON, TEXAS							
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL				DRAWN <i>[Signature]</i> 12/26/66 CHECKED <i>[Signature]</i> 1/2/67 APPROVED <i>[Signature]</i> 1/2/67 APPROVED <i>[Signature]</i> 1/2/67				APOLLO GUIDANCE COMPUTER SUBSYSTEM			
		APPROVED <i>[Signature]</i> 5/2/66 M I T				CODE IDENT NO 80230		SIZE D		DRAWING NO. 2003991			
NEXT ASSY USED ON APPLICATION		APPROVED <i>[Signature]</i> MSC				DATE SCALE NONE		SHEET 1 OF					

A

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FOR REFERENCE ONLY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		LIST OF MATERIALS MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		DRAWN <i>W. J. Murphy</i> <i>1/24/64</i> CHECKED <i>C. M. G. Eubank</i> <i>1/24/64</i> APPROVED <i>W. J. Murphy</i> <i>1/24/64</i> APPROVED <i>W. J. Murphy</i> <i>1/24/64</i>		APOLLO GUIDANCE COMPUTER SUBSYSTEM	
		APPROVED <i>W. J. Murphy</i> <i>1/24/64</i> MIT		CODE IDENT NO 80230	
		APPROVED <i>C. M. G. Eubank</i> MSC		SIZE D	
NEXT ASY USED ON APPLICATION		SCALE NONE		DRAWING NO 2003991	
				SHEET 1 OF 1	

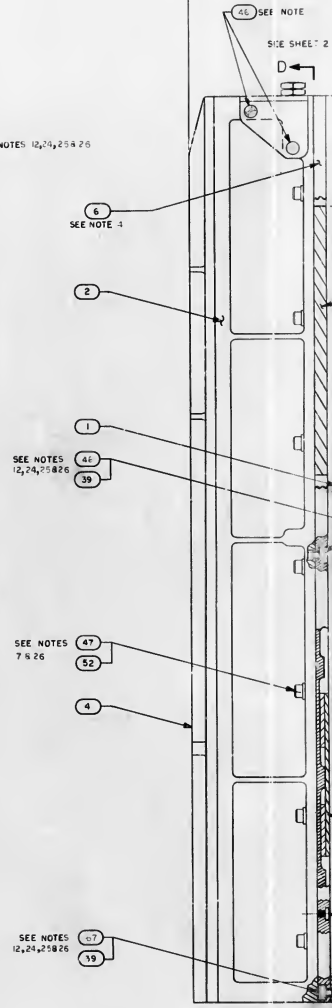
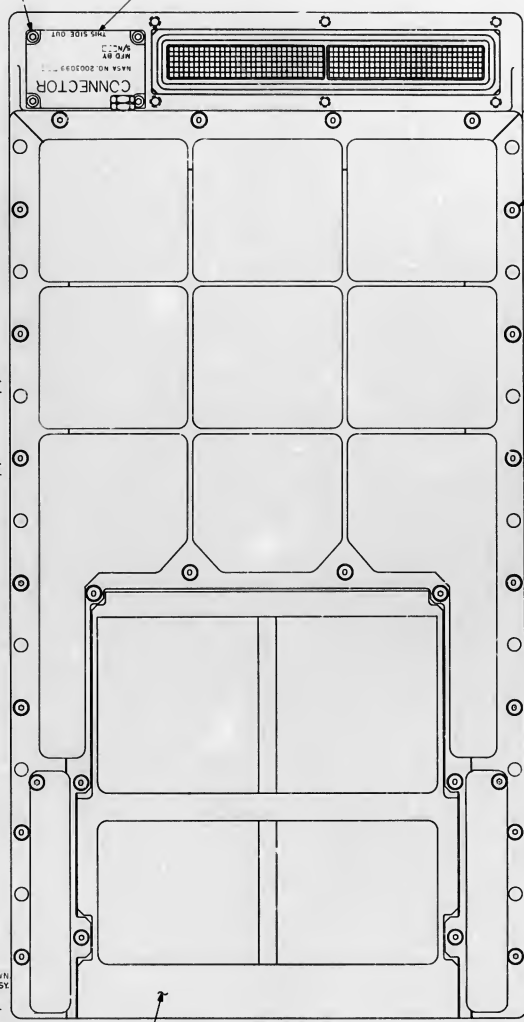


NOTES:

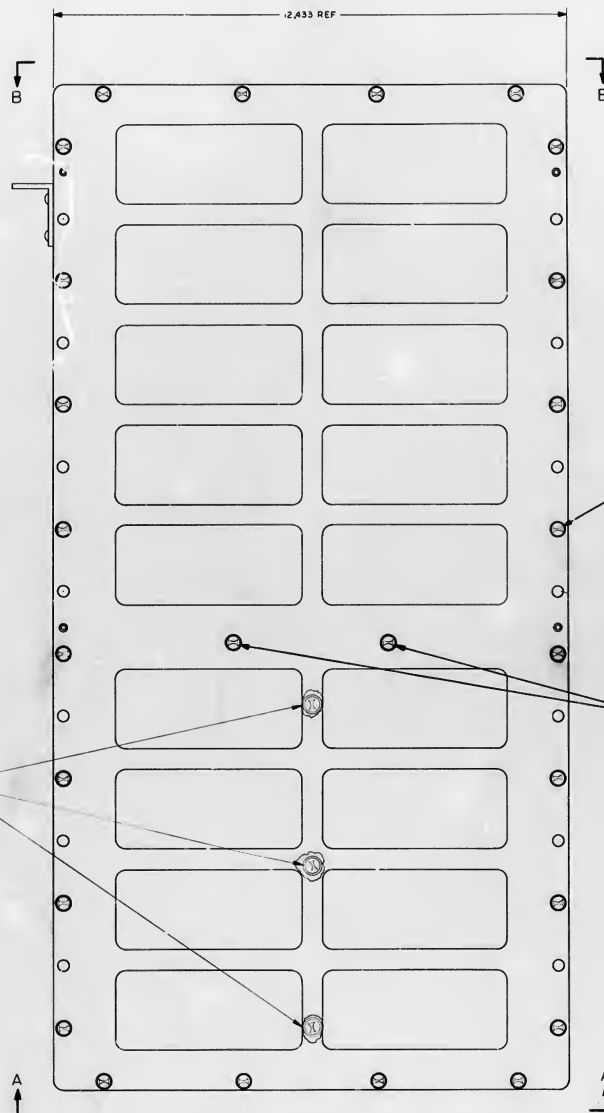
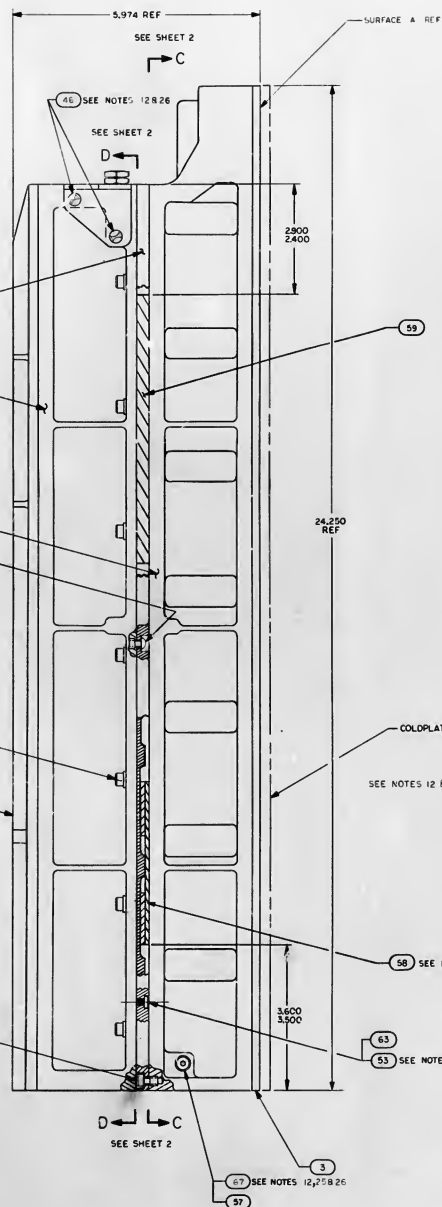
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGC COLOPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC
3. ADD SILICONE COMPOUND 1006879 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
4. ASSEMBLE FIND NO. 53 AND FIND NO. 63 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 1
5. BOND FIND NO. 43 TO FIND NO. 1 PER 10002000 TYPE III
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/16 INCH POUNDS
7. TORQUE FIND NO. 47 TO 28/32 INCH POUNDS
8. FINISH IS REQUIRED TO SATISFY ICD 646C 510-10001
9. APPLY SEALING COMPOUND MIL-5-22473 GRADE H TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2010007
11. TORQUE FOR FIND NO. 56 MOUNTING SCREWS TO BE 4/6 INCH POUNDS
12. TORQUE FOR FIND NO. 46, 49, 50 AND 57 TO BE 18/22 INCH POUNDS
13. TORQUE FOR FIND NO. 53 TO BE 4/6 INCH POUNDS
14. TORQUE FOR FIND NO. 44 AND FIND NO. 56 TO BE 137/157 INCH POUNDS
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. MARK COMPUTER ASSEMBLY AND RELATED PART NO. APPLICABLE DASH NO., SERIAL NO. AND CONTRACT NO. PER 1004260 AND SERIALIZE PER 1002023
17. FINISH SURFACE PER ICD NAA MHOI-01302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICD NAA MHOI-01302-116

18. BOND FIND NO. 58 TO FIND NO. 6 IN POSITION SHOWN USING 1006336, CURE AT ROOM TEMP 24 HRS. PRIOR TO ASSY
19. REFERENCED MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10
20. THE VALUE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART
21. WHEN THE VALUE OF C1 IS ZERO NO COMPONENT SHALL BE USED
22. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF C1 USING 10020000 METHOD C OR D USING PRIMER PER SCODE513
23. WELD PER 10020005
24. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD
25. FIND NO. 39, 48, 55, 857 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED
26. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FIND NO. 66. OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED. CURE AT ROOM TEMP 24 HRS.

27. STENCILING SHOWN FOR ORIENTATION ONLY
28. KEEP ALL MATING INFEATS OF SCREWS, TRAY AND MID SPACER INSERTS FREE OF SILICONE COMPOUND.



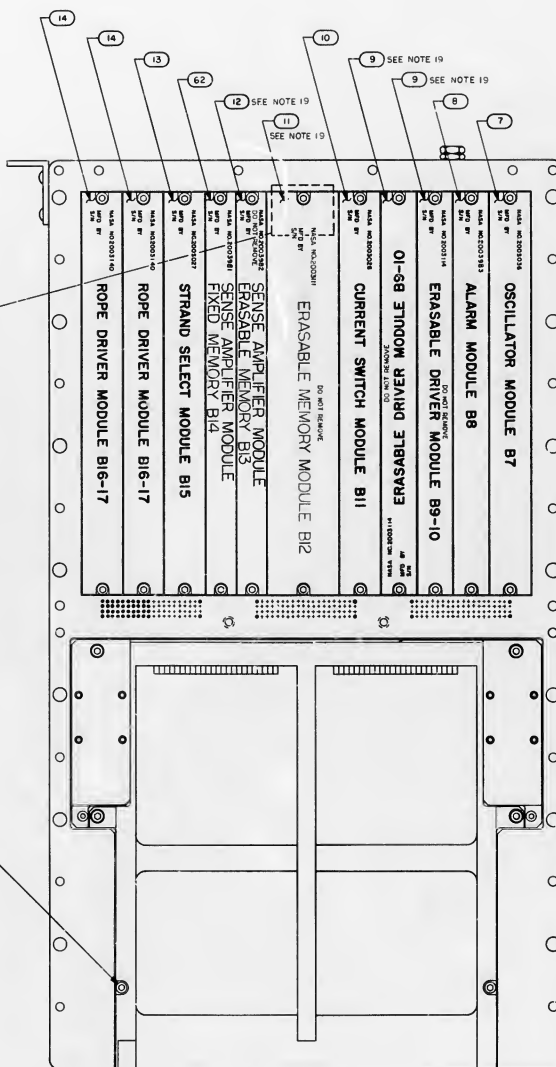
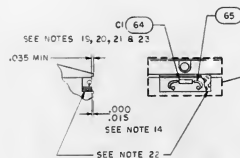
REVISIONS					
REV	DATE	DESCRIPTION	BY	CHK	APPROVED
1		INITIAL RELEASE 7/24/93			



REV	DATE	DESCRIPTION	BY	CHK	APPROVED
1		INITIAL RELEASE 7/24/93			
2		2005944	AGC WIRE LIST		
3		2004932-002	SCREW, CATED		
4		1006338-000	HEATING INSULATED SILICONE RUBBER		
5		1006776-22	INSULATION, SLEEVING ELECTRICAL		
6		1	SEE NOTE 20		
7		10000448-007	WASHER, FLAT		
8		1	2003881-01	SENSE AMP, PER MODULE, FIXED MEMORY B14	
9		AR 1204895-002	SHIM AGC		
10		AR 1204895-001	SHIM AGC		
11		1	2004899-001	PAD VIBRATION	
12		1	2003370	VIBRATION TND ASSY	
13		4	WASHER, DOWN		
14		1	2018773	VALVE PRESSURE ASSEMBLY	
15		1	1000153-5	PACKING, PREFORMED O-RING	
16		2	2004894-001	WASHER, FLAT	
17		8	2004130	PAD, THREADED	
18		18	2004894-004	WASHER, FLAT	
19		4	2004894-012	WASHER, FLAT	
20		2	1004899-38	SCREW, HEX SOCKET HEAD	
21		6	1004722-2	SCREW, CAPTIVE	
22		1	1000153-7	PACKING, PREFORMED O-RING	
23		18	1004722-1	SCREW, CAPTIVE	
24		1	1006347	GASKET, FLAT	
25		1	2004896	PLUG, MACHINE THREAD	
26		1	1004280-18	NAME PLATE, TYPE 1	
27		1	2004113-001	BRACKET, CABLE	
28		1	2003588-011	CONNECTOR ASSEMBLY	
29		1	1005580	GASKET, RETAINED	
30		58	2004707	WASHER, KNUBBED	
31		3	2003067-041	INTERFACE MODULE A27-28	
32		2	2003070-011	INTERFACE MODULE A25-26	
33		2	2003887-011	POWER SUPPLY MODULE A30-31	
34		1	2003121-241	LOGIC MODULE A24	
35		1	2003121-221	LOGIC MODULE A23	
36		1	2003121-211	LOGIC MODULE A22	
37		1	2003121-191	LOGIC MODULE A21	
38		1	2003121-181	LOGIC MODULE A20	
39		1	2003121-171	LOGIC MODULE A19	
40		1	2003121-161	LOGIC MODULE A18	
41		1	2003121-151	LOGIC MODULE A17	
42		1	2003121-141	LOGIC MODULE A16	
43		1	2003121-131	LOGIC MODULE A15	
44		1	2003121-121	LOGIC MODULE A14	
45		1	2003121-111	LOGIC MODULE A13	
46		1	2003121-101	LOGIC MODULE A12	
47		4	2003121-081	LOGIC MODULE A8-11	
48		1	2003121-071	LOGIC MODULE A7	
49		1	2003121-061	LOGIC MODULE A6	
50		1	2003121-051	LOGIC MODULE A5	
51		1	2003121-041	LOGIC MODULE A4	
52		1	2003121-031	LOGIC MODULE A3	
53		1	2003121-021	LOGIC MODULE A2	
54		1	2003121-011	LOGIC MODULE A1	
55		2	2003140-031	HOPE DRIVER MODULE B16-17	
56		1	2003027-031	STRAND SELECT MODULE B15	
57		1	2003962-001	SENSE AMP, MOD, ERASABLE MEMORY B13	
58		1	2003111-021	ERASABLE MEMORY MODULE B12	
59		1	2003026-031	CURRENT SWITCH MODULE B11	
60		2	2003114-021	ERASABLE DRIVER MODULE B9-10	
61		1	2003983-021	ALARM MODULE B8	
62		1	2003038-031	OSCILLATOR MODULE B7	
63		1	2003978-031	WIP SONES	
64		1	2003059-021	INTERCONNECTION HEADER ASSEMBLY	
65		1	2003974-011	TRAY B COVER	
66		1	2003977-011	TRAY A COVER	
67		1	2003093-011	TRAY B WIRED ASSEMBLY	
68		1	2003092-011	TRAY A WIRED ASSEMBLY	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS: DECIMALS .010 INCHES .010 DO NOT SCALE THIS DRAWING NOTES:		MTT INSTRUMENTATION LAB COMMANDEER HALL DRAWN: B. J. HARRIS CHECKED: J. J. HARRIS APPROVED: J. J. HARRIS DATE: 7/24/93		MANNED SPACECRAFT CENTER HOUSTON, TEXAS COMPUTER ASSEMBLY CODE DESK NO: 80230 J SIZE: 1/1 SCALE: 1/1 SHEET: 1 OF 2	
2003991		HEAT APPLY		ON USE	
APPLICATION					

CI		
PART NO.	VALUE	U/P
1006777-1	10	
-15	150	
-18	330	
-20	470	
-22	680	
1006777-23	820	
SEE NOTE 21	C	
1006777-16	220	
1326777-17	270	

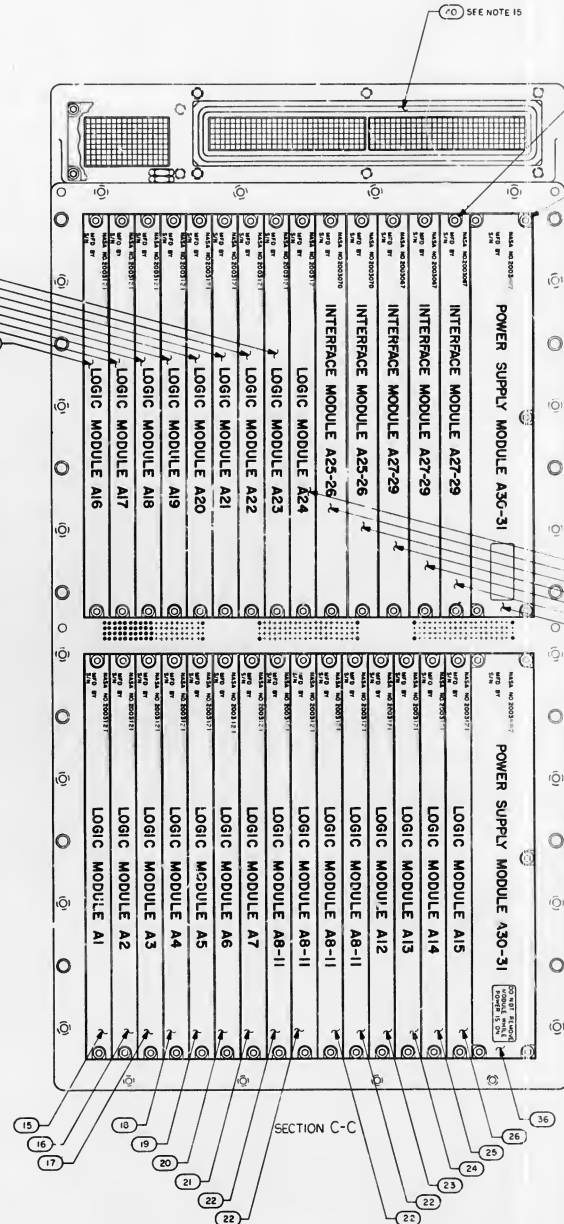


SECTION D-D

2003993

A

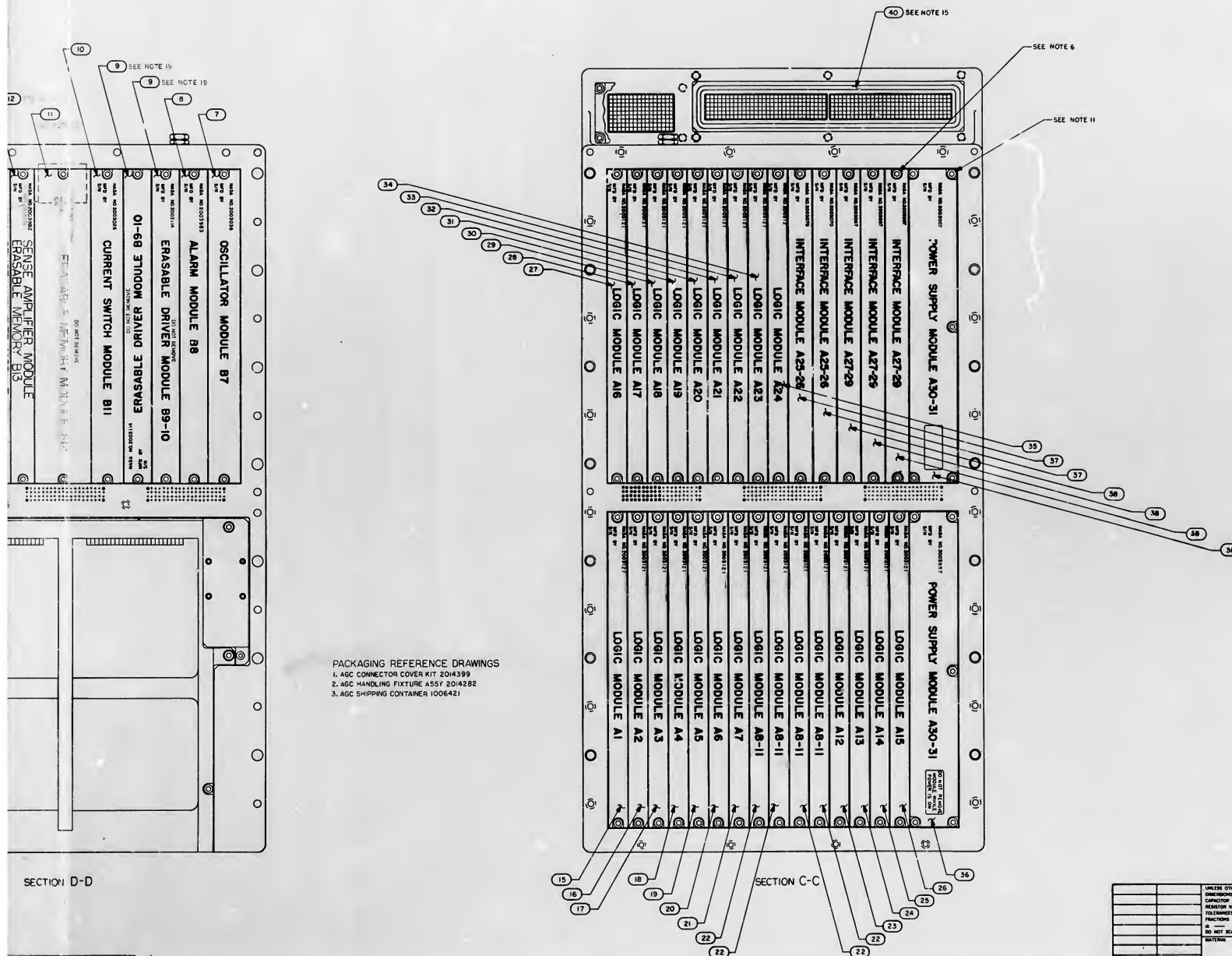
PACKAGING REFERENCE DRAWINGS
 1. AGC CONNECTOR COVER KIT 204399
 2. AGC HANDLING FIXTURE ASSY 204282
 3. AGC SHIPPING CONTAINER 1006421



SECTION C-C

A

REVISIONS				
REV	DATE	DESCRIPTION	BY	APP
1	INITIAL	REVISION		

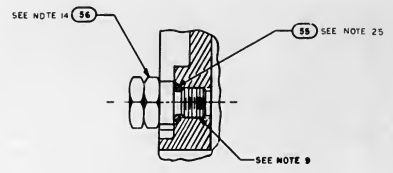


QTY		PART OR IDENTIFYING NO		HOMESHAPE OR DESCRIPTION		PART NO	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB COMPUTER ROOM				MAINED SPACECRAFT CENTER HOUSTON, TEXAS			
DESIGNED BY: [Signature]				CHECKED BY: [Signature]			
APPROVED BY: [Signature]				APPROVED BY: [Signature]			
DATE: [Date]				DATE: [Date]			
DRAWN BY: [Signature]				DRAWN BY: [Signature]			
SCALE: 1/1				SCALE: 1/1			
SHEET 2 OF 2				SHEET 2 OF 2			

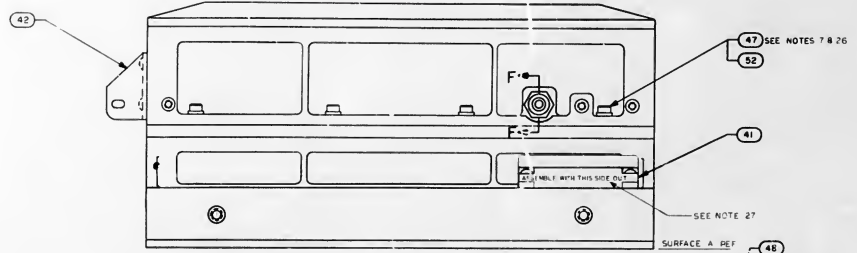
2003993

2003993

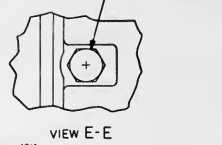
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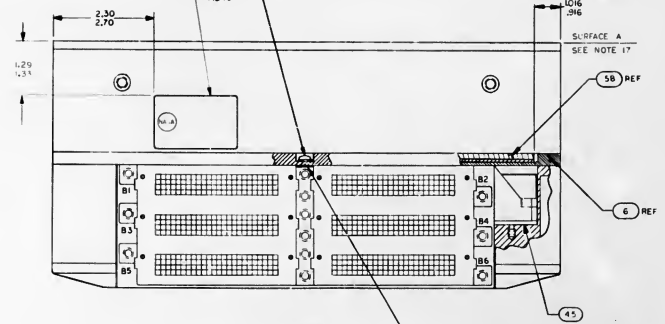
PARTIAL SECTION F F
SCALE: 2/1



VIEW B-B



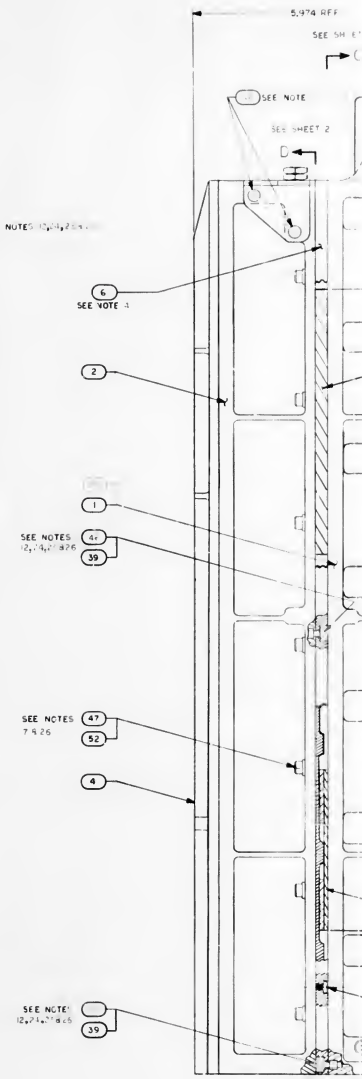
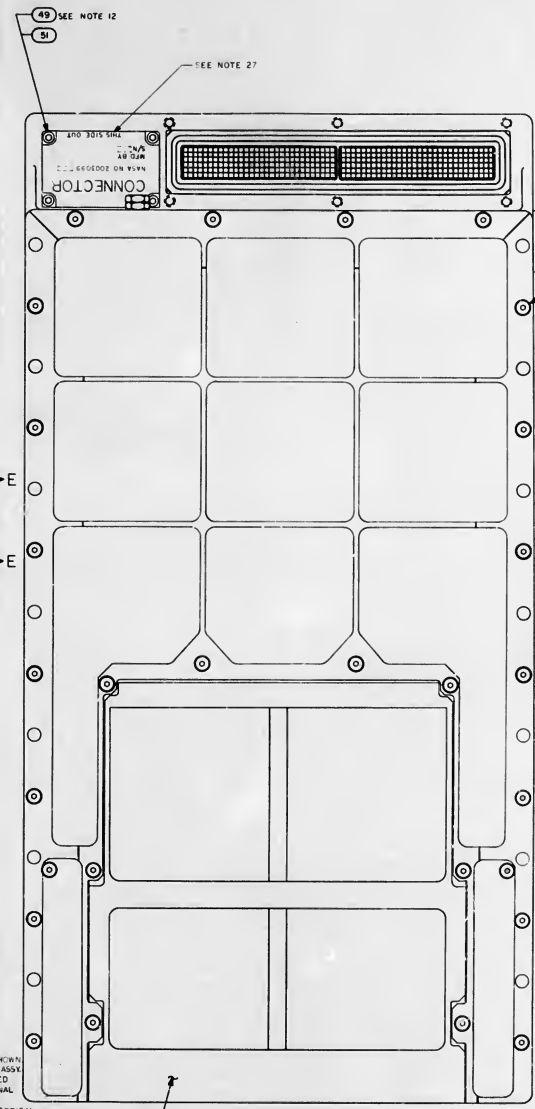
VIEW E-E



VIEW A-A

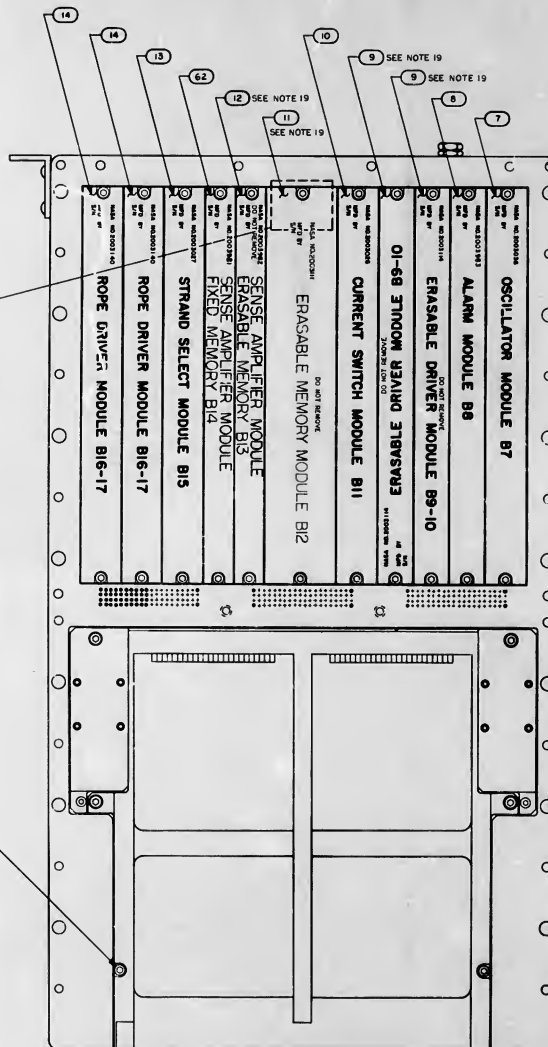
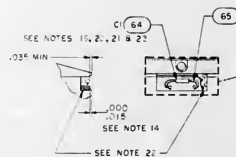
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE ABC COUPLER AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC 3400 SILICONE
3. ASSEMBLY FNO 100679 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
4. ASSEMBLY FNO 10053 AND FNO 1063 TO FIND NO. 63 AND FNO 106 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FNO 1014 FIND NO. 65
5. BOND FNO 1043 TO FIND NO. 44 AND FNO 1043 TO FIND NO. 10
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS
7. TORQUE FNO 1047 TO 28/32 INCH POUNDS
8. FINISH IS REQUIRED TO SATISFY ICD 0462 510-10001
9. APPLY SEALING COMPOUND MIL-5-22473 GRADE H TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF P5010007
11. TORQUE FOR FIND NO. 53 TO BE 18/22 INCH POUNDS
12. TORQUE FOR FIND NO. 46, 49 TO BE 4/6 INCH POUNDS
13. TORQUE FOR FIND NO. 44 AND FIND NO. 56 TO BE 13/17 INCH POUNDS
14. TORQUE FOR FIND NO. 53 TO BE 13/17 INCH POUNDS
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. MARK COMPUTER ASSEMBLY AND RELATED PART NO. APPLICABLE DATA NO. SERIAL NO. AND CONTRACT NO. PER 1004250 AND SERIALIZE PER 1001002023
17. FINISH SURFACE PER ICD NAA MH01-01302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICD NAA MH01-01302-116
18. BOND FNO 1058 TO FIND NO. 61N POSITION SHOWN USING 1000257 CURE AT ROOM TEMP 24 HRS PRIOR TO ASSY
19. REFERENCED MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10
20. THE VALUE OF CI TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART
21. WHEN THE VALUE OF CI IS ZERO NO COMPONENT SHALL BE USED
22. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF CI USING ND1002009 METHOD C OR D USING PRIMER PER SC1012513
23. WELD PER ND1002005
24. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD
25. FIND NO. 39, 49, 55 & 57 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED
26. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FIND NO. 66. OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED CURE AT ROOM TEMP 24 HRS
27. STENCILING SHOWN FOR ORIENTATION ONLY
28. REPAIR ALL MATING THREADS OF SCREWS THAT AND MID SPACER INSERTS FREE OF SILICON COMPOUND



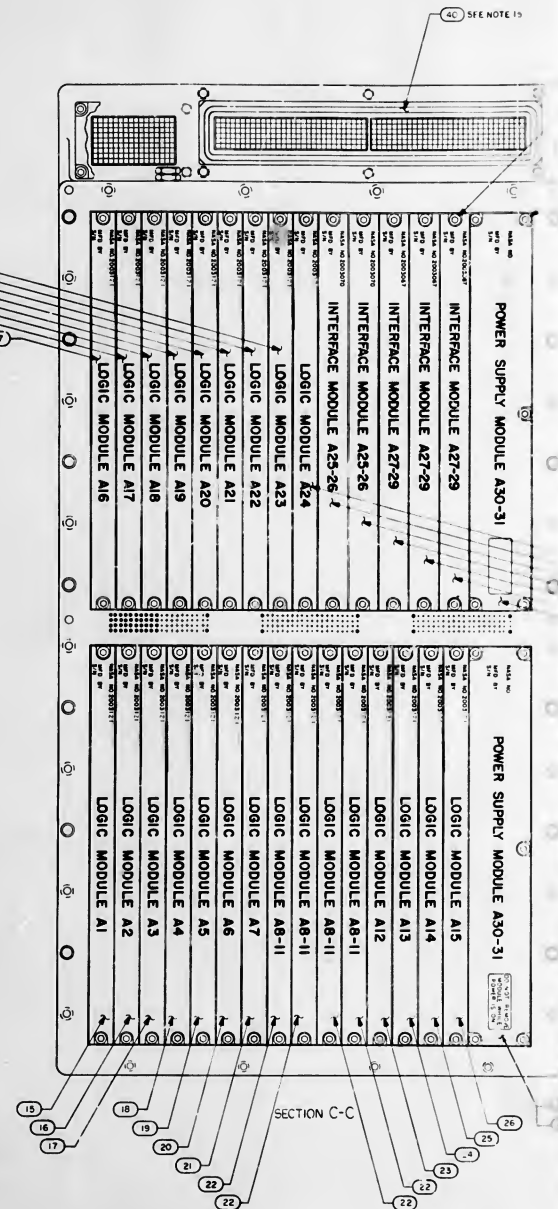
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CI	
PART NO.	VALUE
1006777-1	0
-5	150
-18	330
-20	470
-22	680
1006777-23	820
SEE NOTE 21	0
1006777-16	220
1006777-17	270



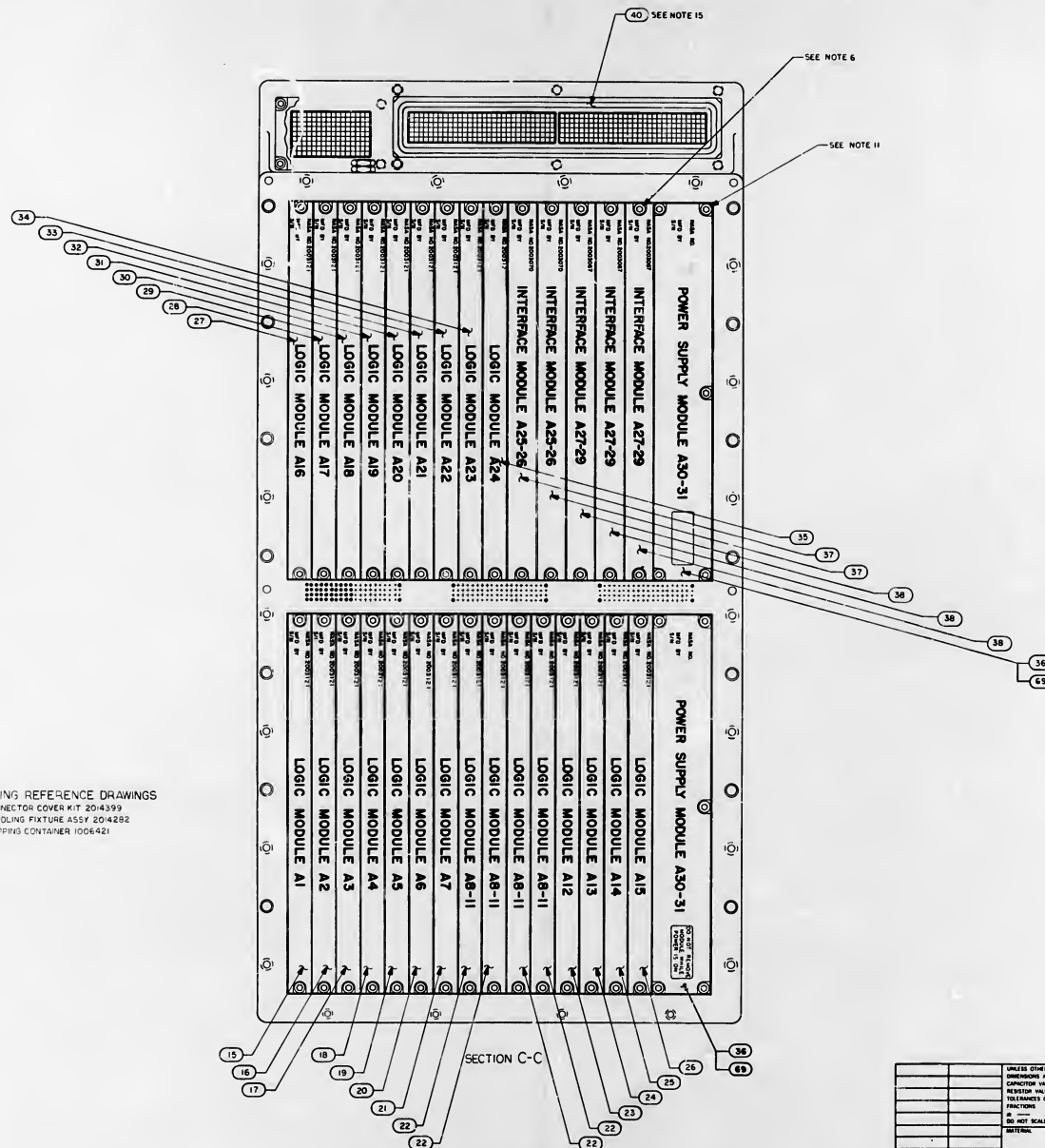
SECTION D-D

PACKAGING REFERENCE DRAWINGS
 1. AGC CONNECTOR COVER KIT 2014399
 2. AGC HANDLING FIXTURE ASSY 2014282
 3. AGC SHIPPING CONTAINER 1006421



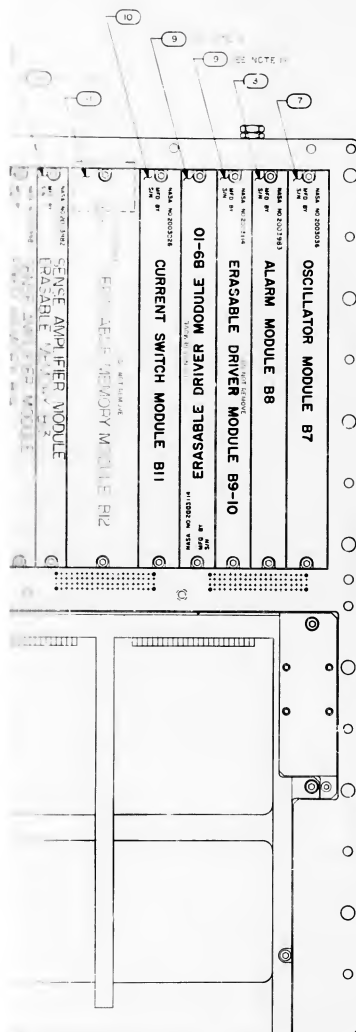
SECTION C-C

2003993



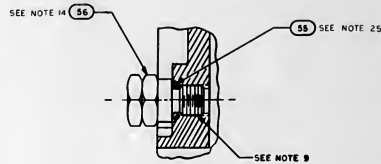
PACKAGING REFERENCE DRAWINGS

1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

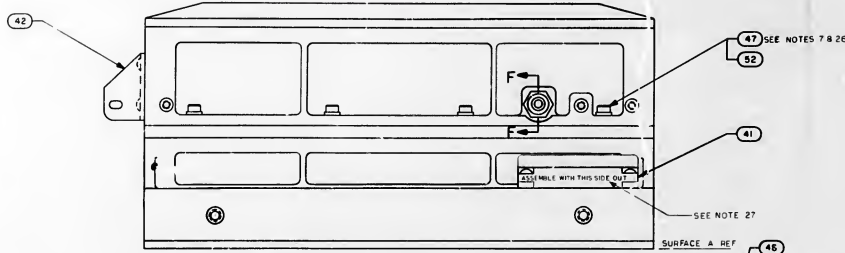


SECTION D-D

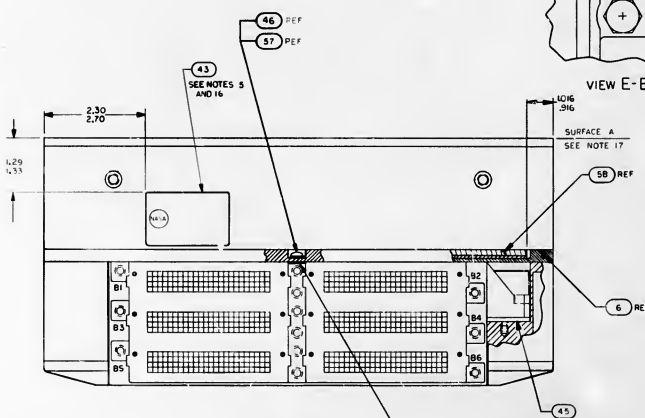
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PARTIAL SECTION F F
SCALE: 2/1



VIEW B-B



VIEW A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE ABC COLOPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. ADD SILICONE RTV #1006879 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
4. ASSEMBLE FIND NO. 53 AND FIND NO. 63 TO FIND NO. 6 AND FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 6
5. BOND FIND NO. 43 TO FIND NO. 1 AND FIND NO. 14 PER NDI00204 TYPE 12
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/16 INCH POUNDS
7. TORQUE FIND NO. 47 TO 26/32 INCH POUNDS
8. FINISH IS REQUIRED TO SATISFY ICD GACC 510-10001
9. APPLY SEALING COMPOUND MIL-S-22473 GRADE H TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS1601007
11. TORQUE FOR FIND NO. 36, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

16. BOND FIND NO. 58 TO FIND NO. 6 IN POSITION SHOWN USING 1006879 SILICONE AT ROOM TEMP 24 HRS. PRIOR TO ASSEMBLY
19. REFERENCED MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10
20. THE VALUE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART
21. WHEN THE VALUE OF C1 IS ZERO NO COMPONENT SHALL BE USED
22. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF C1 USING NDI002005 METHOD C OR D USING PRIMER PER SCID012513
23. WELD PER NDI002009
24. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD
25. FIND NO. 39, 48, 55 & 57 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED
26. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FIND NO. 66. OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED. CURE AT ROOM TEMP 24 HRS.

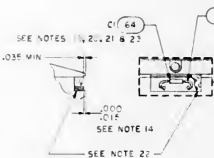
5 SEE NOTE 29

27. STENCILING SHOWN FOR ORIENTATION ONLY
28. KEEP ALL MATING THREADS OF SCREWS, TRAY AND NO SPACER INSERTS FREE OF SILICONE COMPOUND
29. FILL FEMALE INSULATORS OF 841 AND 842 CONNECTORS USING FIND NO. 70 PRIOR TO ASSEMBLY OF FIND NO. 5 TO FIND NO. 2

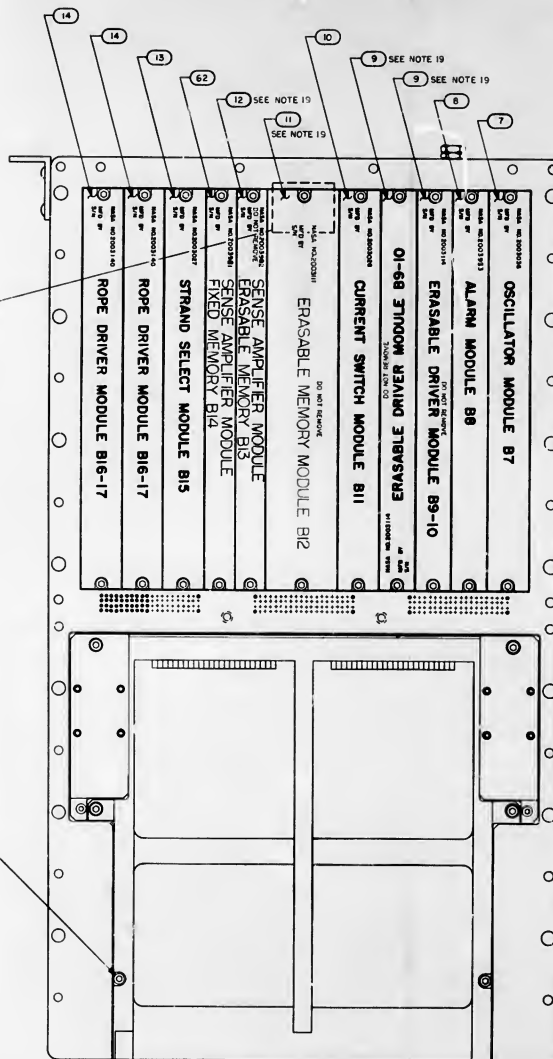
2003993

C

CI	PART NO.	VALUE
	1006777-1	0
	-15	150
	-18	330
	-20	470
	-22	680
	1006777-23	820
	SEE NOTE 21	0
	1006777-16	230
	1006777-19	230



SEE NOTES 12 & 26



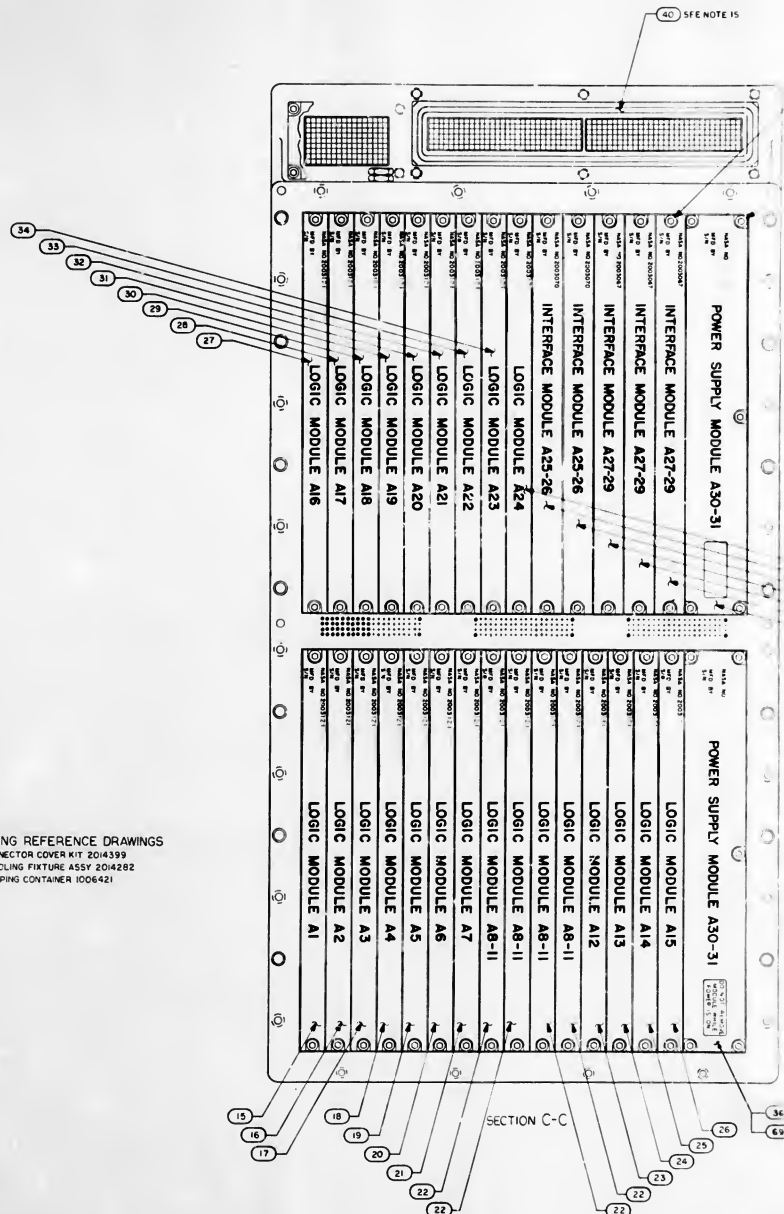
SECTION D-D

2003993

C

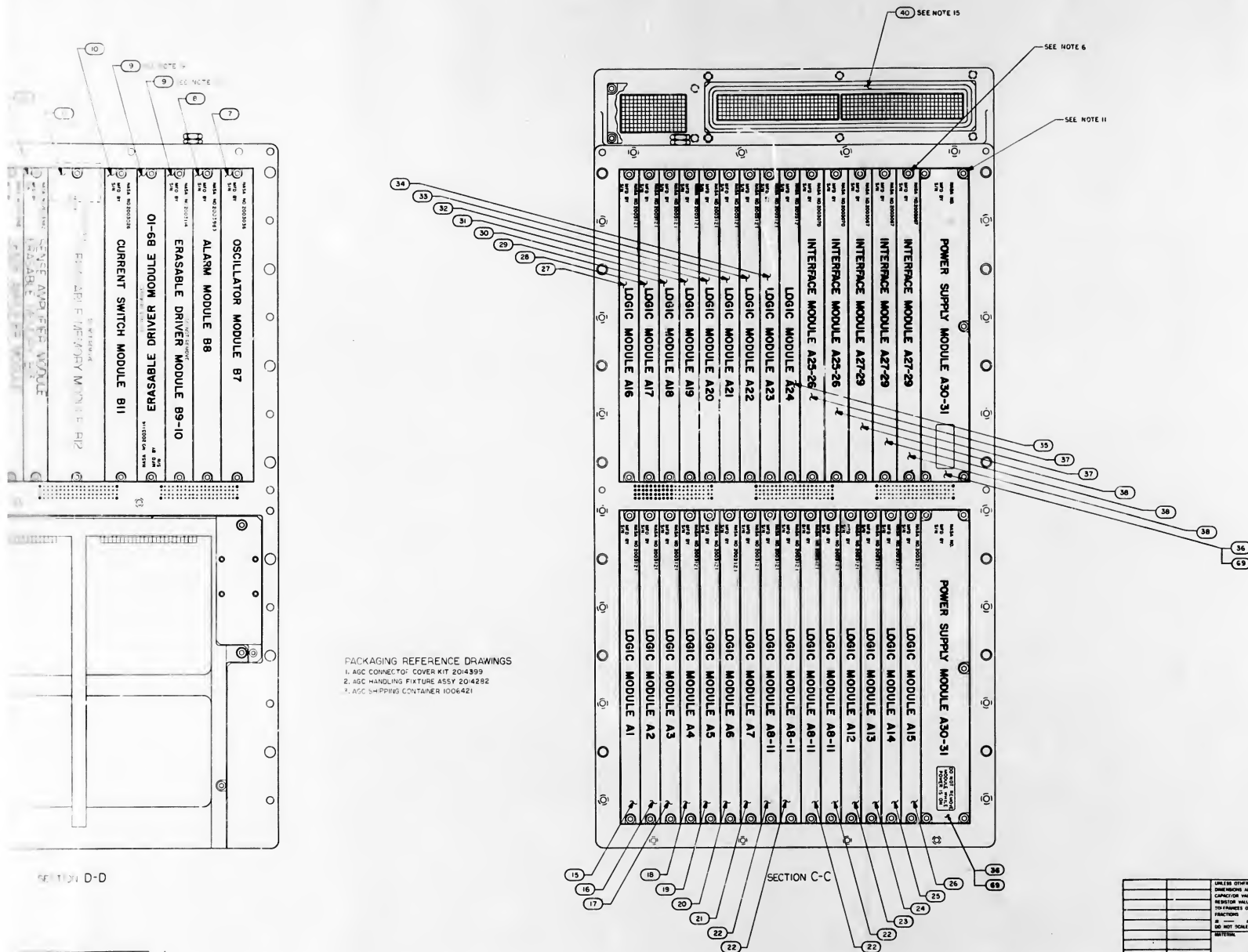
PACKAGING REFERENCE DRAWINGS

1. AGC CONNECTOR COVER KIT 204399
2. AGC HANDLING FIXTURE ASSY 204282
3. AGC SHIPPING CONTAINER 1006421



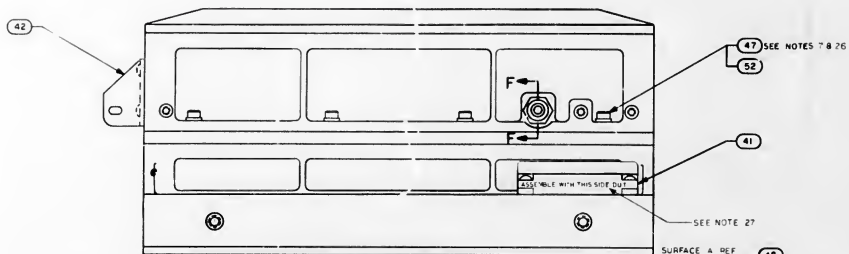
SECTION C-C

REVISIONS					
NO.	DATE	DESCRIPTION	BY	CHK	DATE
1	10/1/66	INITIAL RELEASE PER 204399			
2	10/1/66	RELEASED PER 204399			
3	10/1/66	RELEASED PER 204399			

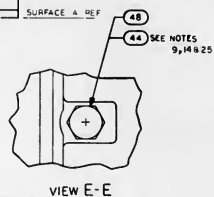


PACKAGING REFERENCE DRAWINGS
 1. AGC CONNECTOR COVER KIT 204399
 2. AGC HANDLING FIXTURE ASSY 204292
 3. AGC SHIPPING CONTAINER 1006421

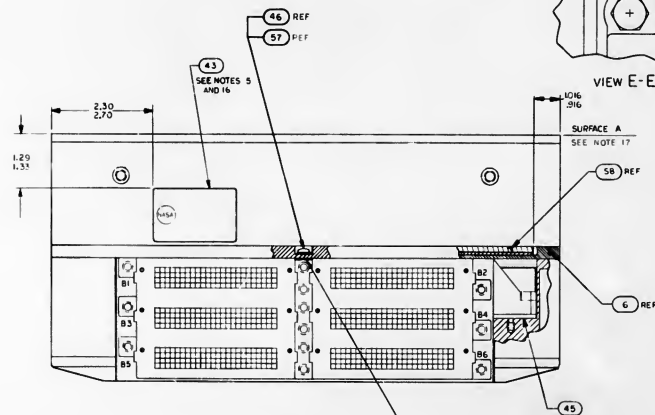
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VIEW B-B

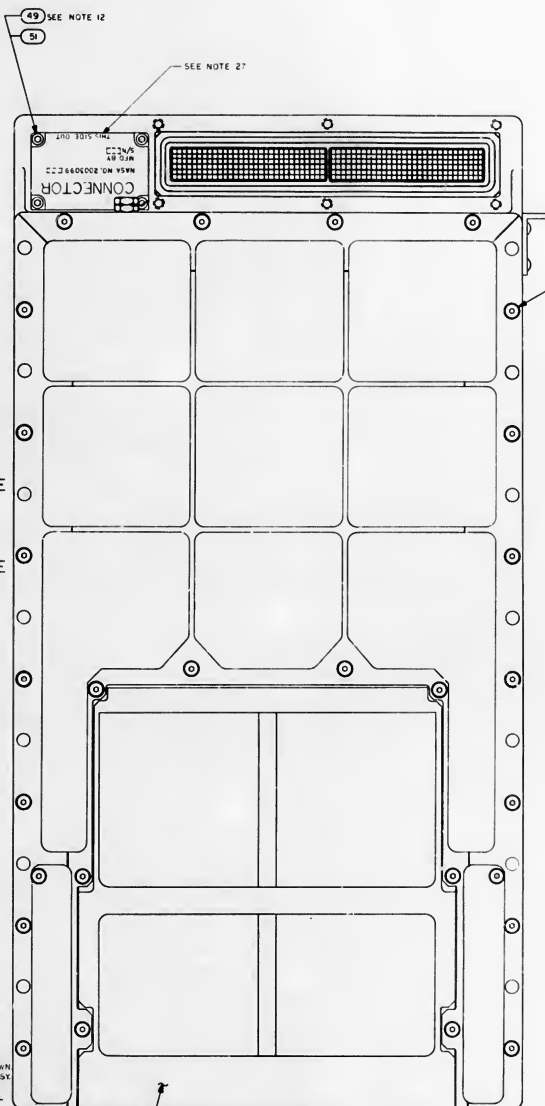


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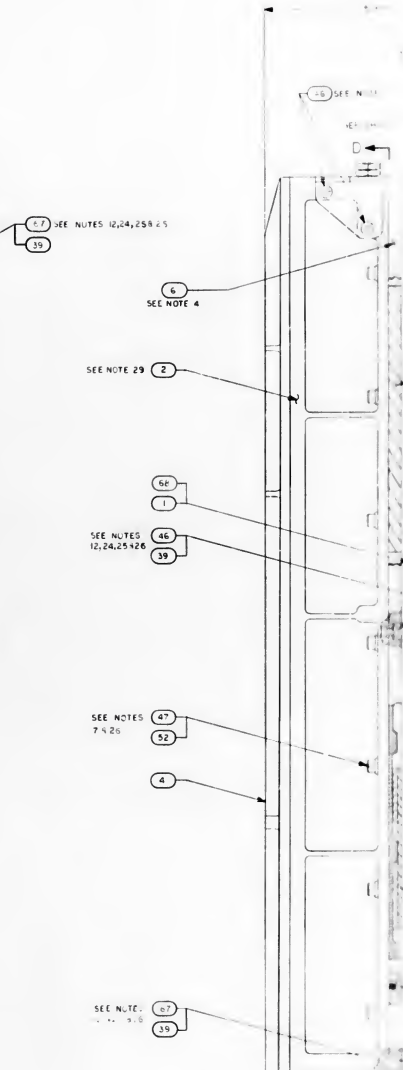


VIEW A-A

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70322
2. PHANTOM LINES DENOTE ASGC COLORPATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC. (NAA) (SOURCE: MIL-STD-100787-1 TO MODUL NUMBER 58 AND METAL SURFACES AND CRAY MATING SURFACES)
3. ASSEMBLY FINDER NO.103330 AND FINDER NO.63 TO FINDER NO.64 AND FINDER NO.6 TO FINDER NO.2 TO ASSEMBLY OF FINDER NO.2 TO FINDER NO.18 FINDER NO.68
4. BOND FINDER NO.43 TO FINDER NO.1 AND FINDER NO.69 FOR NONDODGE TYPE IV
5. ALL OTHERS IN THIS CATEGORY ARE METAL MOUNTING SCREWS 15/16 INCH POUNDS
6. TORQUE FINDER NO.47 TO 28/32 INCH POUNDS
7. FINISH IS REQUIRED TO SATISFY INCH GAUGE 310-10001
8. APPLY SEALING COMPOUND TO FINDER NO.12 TO FINDER NO.53, FINDER NO.56 AND FINDER NO.44
9. DISCOMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS206007
10. TORQUE FINDER NO.36 AND FINDER NO.69 MOUNTING SCREWS TO BE 4/6 INCH POUNDS
11. TORQUE FINDER NO.45, 46, 50, 67 AND 67 TO BE 18/32 INCH POUNDS
12. TORQUE FINDER NO.53 TO BE 4/6 INCH POUNDS
13. TORQUE FINDER NO.44 AND FINDER NO.56 TO BE 15/17 INCH POUNDS
14. FINDER NO.36 SHALL BE SUPPLIED 80 PART OF THIS ASSEMBLY
15. WARP: WARTER ASSEMBLY AND RELATED PART NO. APPLICABLE DATA NO. SERIAL NO. AND CONTRACT NO. FOR 10042600 AND SERIALIZE PER 10010023
16. THIS CONTRACT IS SUBJECT TO THE REQUIREMENTS OF THE MIL-STD-100787-1 TO MODUL NUMBER 58 AND METAL SURFACES AND CRAY MATING SURFACES
17. ELECTRICAL BONDING REQUIREMENTS OF U.S. NAVY NAOI-013002-118
18. BOND FINDER NO.43 TO FINDER NO.1 AND FINDER NO.69 FOR NONDODGE TYPE IV
19. REFERENCED MODULS MUST NOT BE REPLACED OR INTERCHANGED WITH OTHERS OF THE SAME NOMINAL SELECTION PROCEDURE PER NOTE 10
20. THE VALUE OF FI TO BE DETERMINED AT ELECTRICAL BONDING POINTS
21. WHEN THE VALUE OF CI IS ZERO OR COMPOUND IS SHOWN
22. ENCAPSULATE AREA SHOWN AFTER SELECTION AND TO BE USING THE SAME METHOD C OR D USING PI
23. WELD PER NONDODGE
24. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FINISH IN CONTACT WITH SCREEN
25. FINDER NO.39, 44, 50, 57, 58 TO BE DISCARDED AND REPAIR PARTS EACH TIME THEY ARE DISASSEMBLED
26. THIS ASSEMBLY MUST BE DISASSEMBLED AND REPAIR PARTS EACH TIME THEY ARE DISASSEMBLED



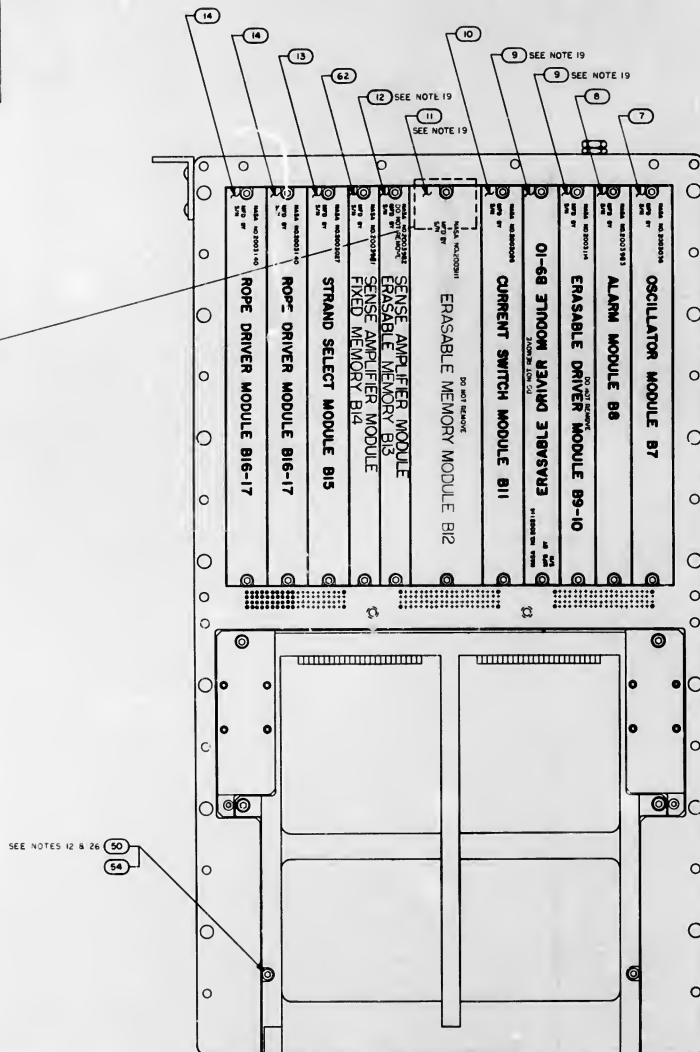
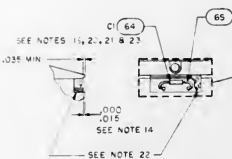
18. MONO FINDS NS-58 TO FIRM C-6 POSITION SHOWING
RONG KODZ CINDUCL AT ROOM TEMP 24 HRS. POSITION
REFERENCED INDICAL MUST BE RECORDED AND
OR INTERCHANGED WITHOUT REFERRING NOMINAL
SELECTION PROCEDURE PER NOTE 10
19. THE VALUE OF CI IS ZERO WHEN ELECTRICAL
TEST AND SELECTED FROM APPROPRIATE CHART
20. WHEN THE VALUE OF CI IS ZERO NO COMPONENT SHALL BE USED
FOR INDICATION OF THE PROPER CIRCUIT INSTALLATION
OF CI USING 000000009 METHOD C OR USING PRIMER PER SC001253
FOR THE MODULOS
21. ASSEMBLY MODULOS WITH SMOOTH FACE OF ROOM TEMP 39
IN CONTACT WITH SCREW HEAD
22. IF TWO MODULOS ARE DISASSEMBLED AND REPLACED WITH TWO
PARTS EACH TIME THEY ARE DISASSEMBLED
23. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING
OF R0016. COATING SHALL BE APPLIED TO ALL DIMENSIONS
SHALL NOT BE EXCEEDED CURE AT ROOM TEMP 24 HRS.



27. STENCILING SHOWN FOR ORIENTATION ONLY
28. KEEP ALL MATING THREADS OF SCREWS, TRAY
AND MID SPACER INSERTS FREE OF SILICONE
COMPOUND
29. FILL FEMALE INSULATORS OF B41 AND B42 CONNECTORS
USING FINE NO.70 PRIOR TO ASSEMBLY OF FINE NO.5 TO
FIND NO.2

11 Nov. 96 20[illegible]

C1		
PART NO.	VALUE	UUF
1006777-1	0	
-15	150	
-18	330	
-20	470	
-22	680	
1006777-23	820	
SEE NOTE 21	0	
1006777-6	220	
1006777-17	270	

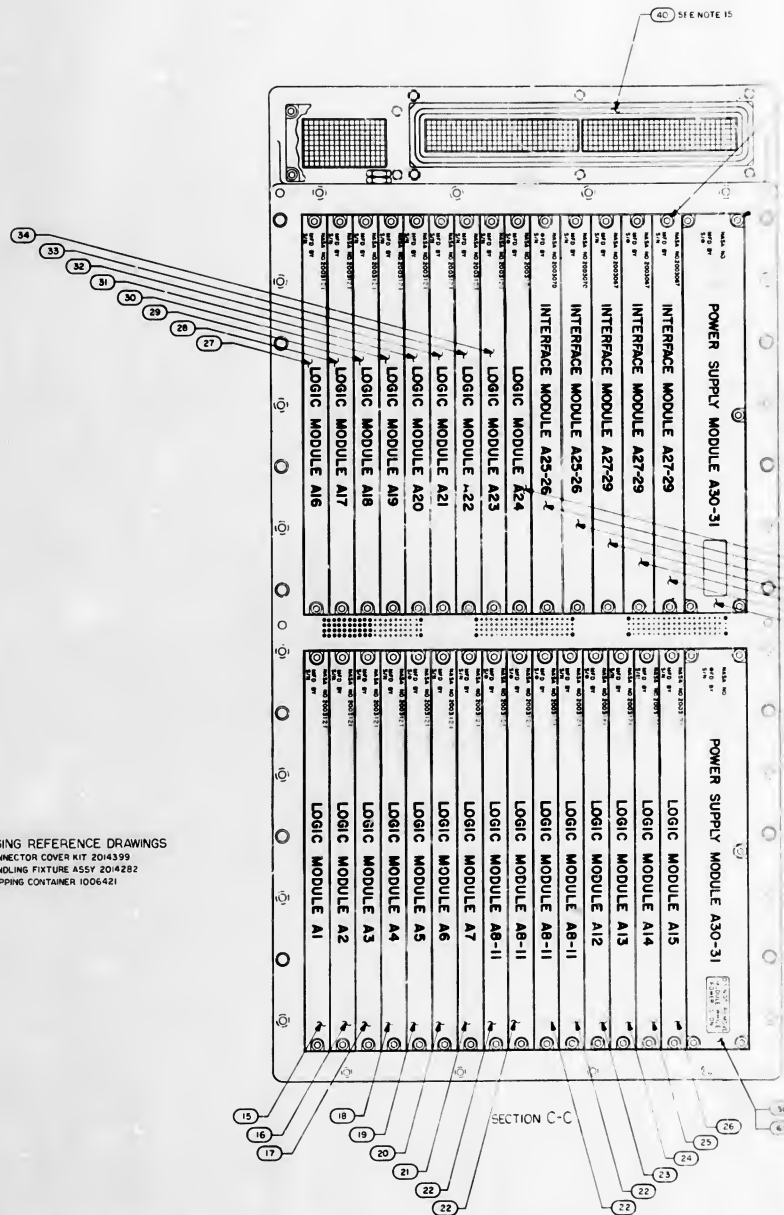


SECTION D-D

2003993

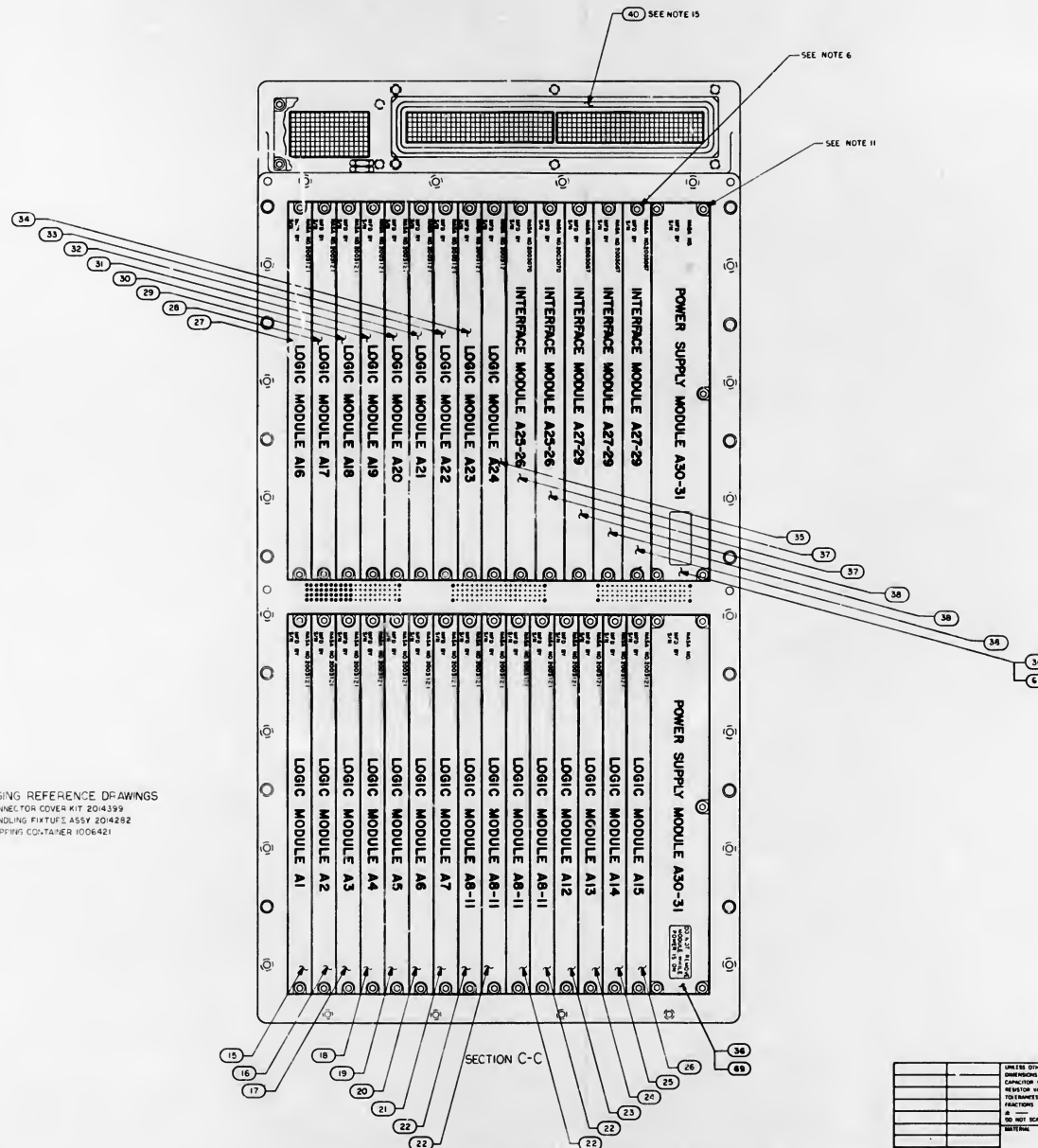
PACKAGING REFERENCE DRAWINGS

1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421



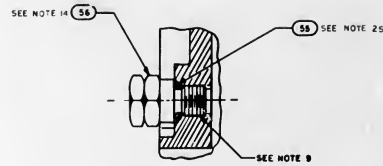
SECTION C-C

REVISIONS					
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2	10/1/68	RELEASED PER YOUR 82905			
3	10/1/68	REVISION FOR YOUR 82905			

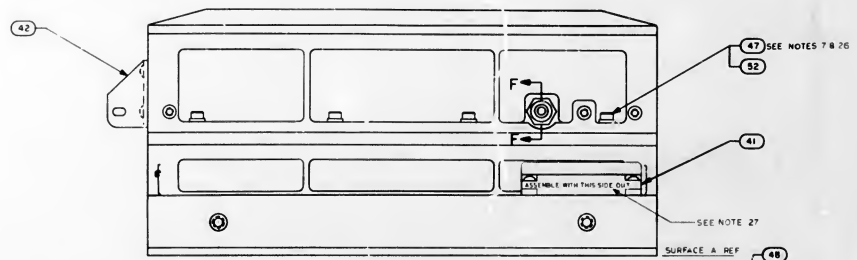


PACKAGING REFERENCE DRAWINGS
 1. AGC CONNECTOR COVER KIT 2014399
 2. AGC HANDLING FIXTURE ASSY 2014282
 3. AGC SHIPPING CONTAINER 1006421

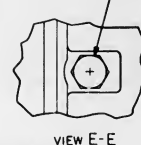
REV	PART OR IDENTIFYING NO	NAME, TITLE OR DESCRIPTION	DATE
100		INSTRUMENTATION LAB	
		MANAGED SPACECRAFT CENTER	
		HOUSTON, TEXAS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMAL VALUES ARE IN INCHES FRACTIONS ARE IN INCHES TOLERANCES ON DECIMALS AND FRACTIONS ARE AS SHOWN DO NOT SCALE THIS DRAWING		DRAWN: [Signature] CHECKED: [Signature] APPROVED: [Signature] DATE: [Date]	
PART NAME: [Blank] USED ON: [Blank] APPLICATION: [Blank]		CODE: 80230 J SCALE: 1:1 SHEET: 2 OF 2	



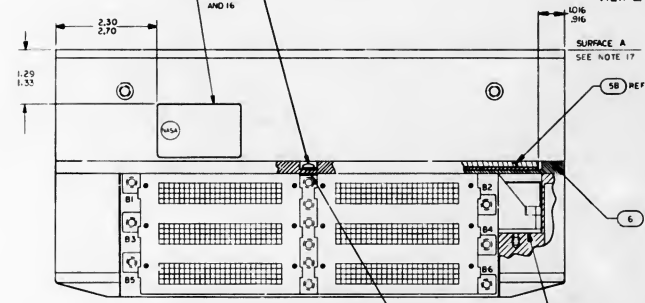
PARTIAL SECTION F F
SCALE: 2/1



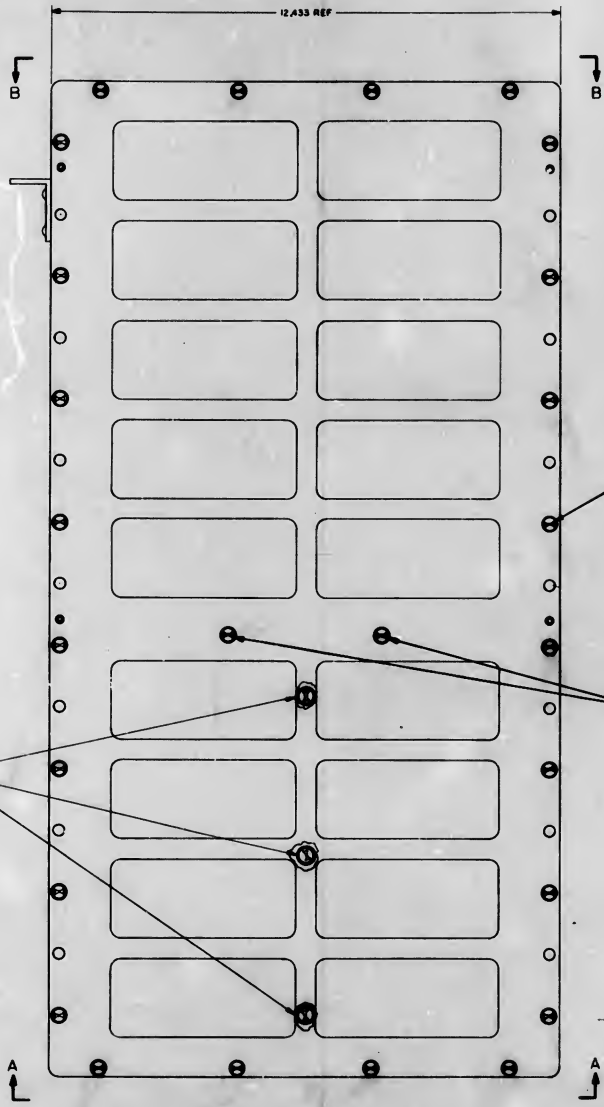
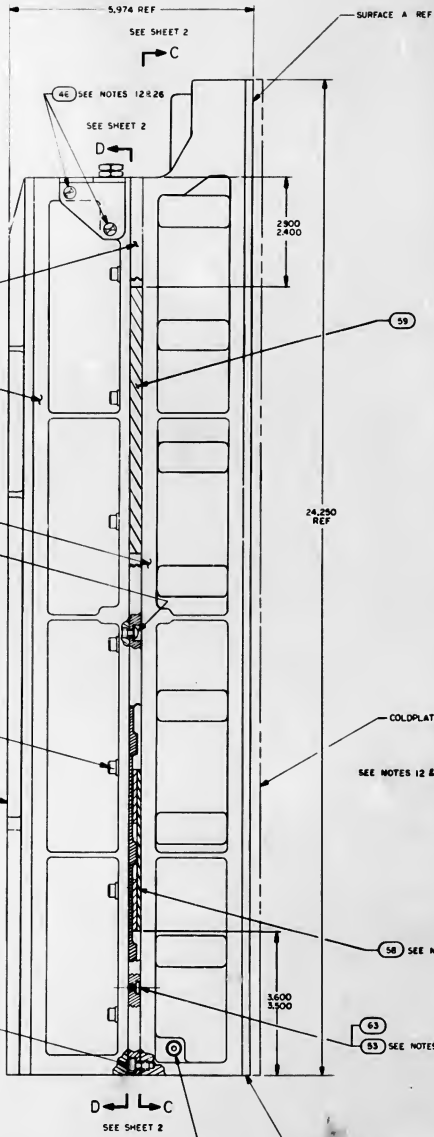
VIEW B-B



VIEW E-E



REV	DATE	DESCRIPTION	BY	CHK	APP	DATE
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3		REVISED PER TORR 32963				
4		REVISED PER TORR 32963				
5		REVISED PER TORR 32963				



REV	DATE	DESCRIPTION	BY	CHK	APP	DATE
1		INITIAL RELEASE 7/20/70				
2		REVISED PER TORR 32963				
3		REVISED PER TORR 32963				
4		REVISED PER TORR 32963				
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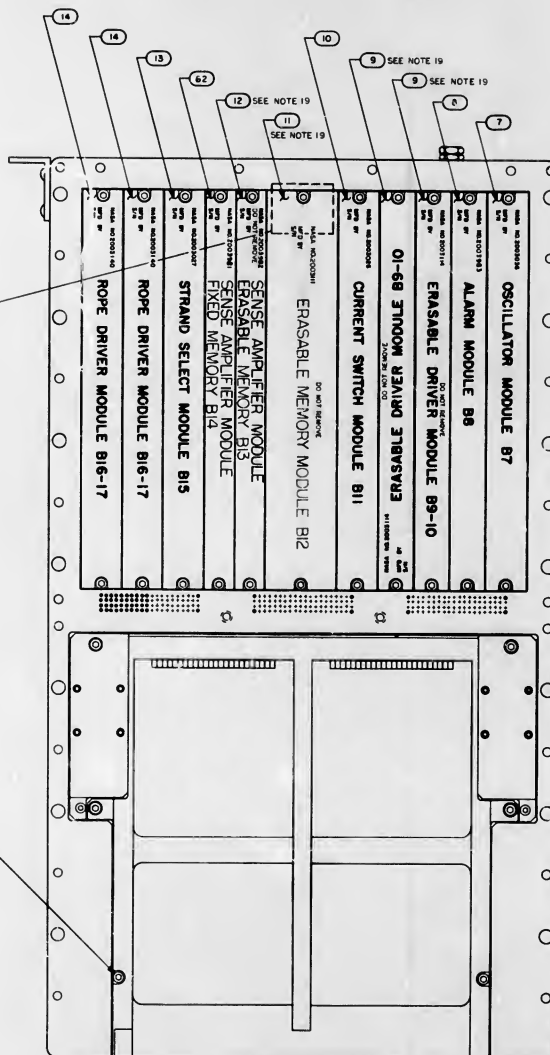
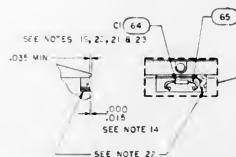
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4		REVISED PER TORR 32963				
5		REVISED PER TORR 32963				

REV	DATE	DESCRIPTION	BY	CHK	APP	DATE
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3		REVISED PER TORR 32963				
4		REVISED PER TORR 32963				
5		REVISED PER TORR 32963				

REV	DATE	DESCRIPTION	BY	CHK	APP	DATE
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3		REVISED PER TORR 32963				
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2003991 REV 1001 USED ON APPROVED		2003991 REV 1001 USED ON APPROVED		2003991 REV 1001 USED ON APPROVED	
INSTRUMENTATION LAB COMPLETED DATE		INSTRUMENTATION LAB COMPLETED DATE		INSTRUMENTATION LAB COMPLETED DATE	
NAME: COMPUTER ASSEMBLY APPROVED: 80230 J DATE: 2003993		NAME: COMPUTER ASSEMBLY APPROVED: 80230 J DATE: 2003993		NAME: COMPUTER ASSEMBLY APPROVED: 80230 J DATE: 2003993	

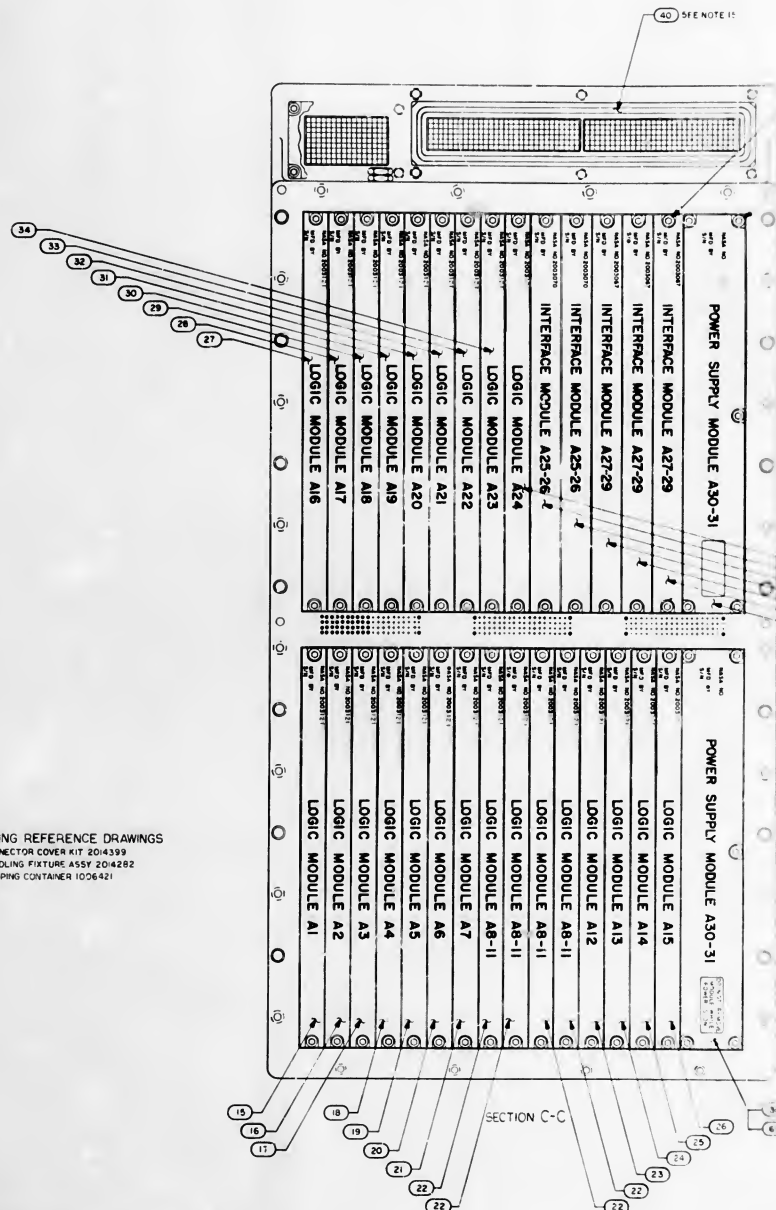
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PART NO.	VALUE UUF
1006777-1	10
-15	150
-18	330
-20	470
-22	680
1006777-23	820
SEE NOTE 21	0
1006777-16	220
1006777-17	230



SECTION D-D

PACKAGING REFERENCE DRAWINGS

1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

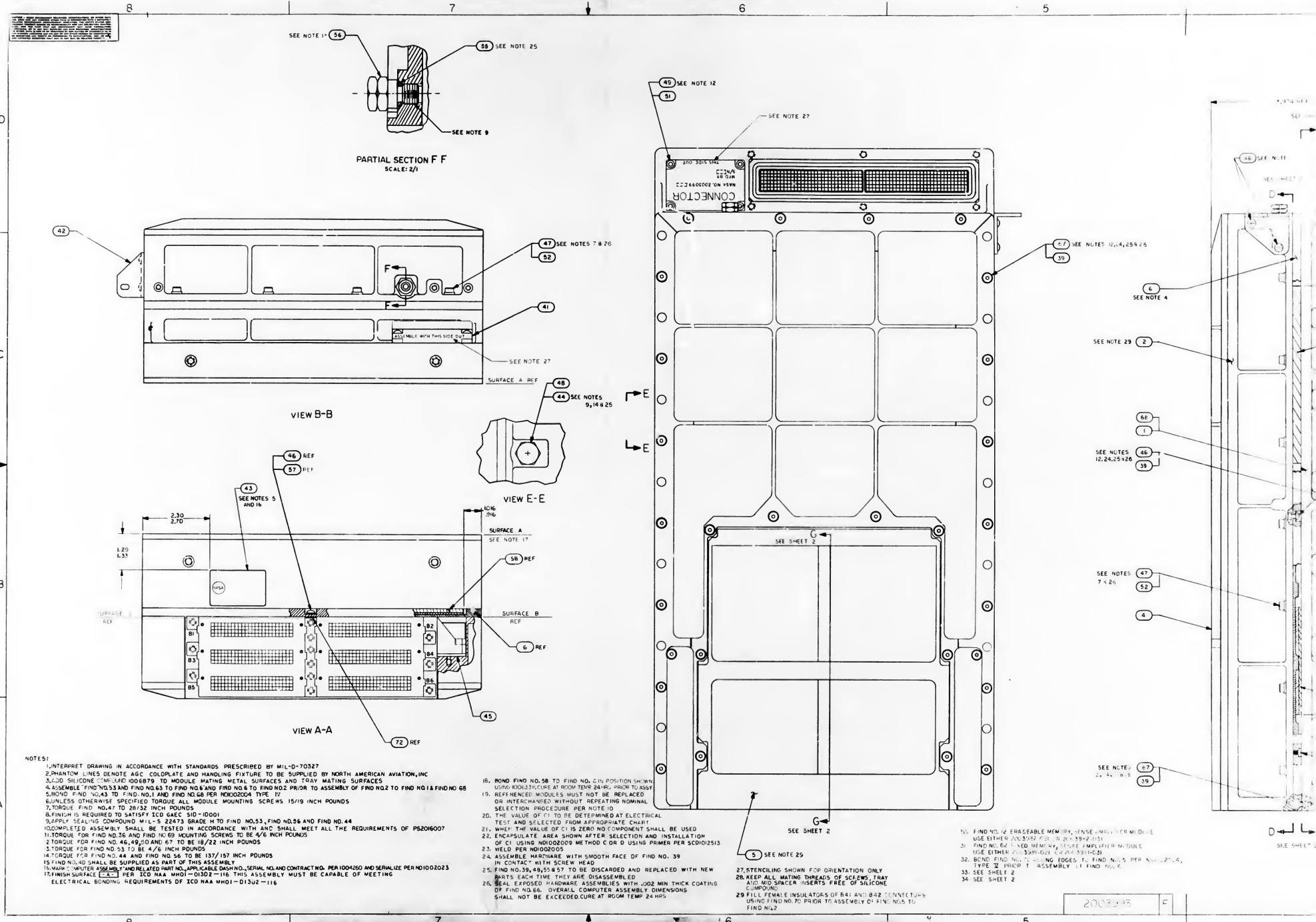


/SECTION C-C

1



DATE 10/1/76		PART OF NAVPACFORM 160		NOMENCLATURE OR DESCRIPTION	
LIST OF MATERIALS		LIST OF MATERIALS			
NAME OF THE SPECIFIC COMMISSION, AND IN SHORT NUMBER, LETTER OR IN CODE TO IDENTIFY THE FUNCTION, GENERAL, AND IN SHORT SCALE TYPE, OR DESIGN		INSTRUMENT LAB NUMBER, TRAIL		MANNED SPACECRAFT CENTER	
CHECKED APPROVED DATE		CHECKED APPROVED DATE		COMPUTER ASSEMBLY	
DATE 10/1/76		DATE 10/1/76		DATE 10/1/76	
NEXT 802303		NEXT 802303		NEXT 2003993	
APPLICATION		APPLICATION		APPLICATION	



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGC, COLDPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. 200 SILICONE COMPOUND 1006879 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES
4. ASSEMBLE FIND NO. 33 AND FIND NO. 63 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 1 AND FIND NO. 8
5. REMOVE FIND NO. 43 TO FIND NO. 1 AND FIND NO. 68 PER NID002004 TYPE IV
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS
7. TORQUE FIND NO. 47 TO 28/32 INCH POUNDS
8. FINISH IS REQUIRED TO SATISFY ICD GACS SID-10001
9. APPLY SEALING COMPOUND MIL-S-22473 GRADE N TO FIND NO. 53, FIND NO. 56 AND FIND NO. 44
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS200007
11. TORQUE FOR FIND NO. 36 AND FIND NO. 69 MOUNTING SCREWS TO BE 4/6 INCH POUNDS
12. TORQUE FOR FIND NO. 46, 49, 50 AND 67 TO BE 18/22 INCH POUNDS
13. TORQUE FOR FIND NO. 53 TO BE 4/6 INCH POUNDS
14. TORQUE FOR FIND NO. 44 AND FIND NO. 56 TO BE 13/17 INCH POUNDS
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. MARK "WRITER ASSEMBLY" AND RELATED PART NO., APPLICABLE DASH NO., SERIAL NO. AND CONTRACT NO. PER 1004250 AND SERIALIZE PER NID002023
17. FINISH SURFACE [] PER ICD NAA MHOI-D1302-116. THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICD NAA MHOI-D1302-116

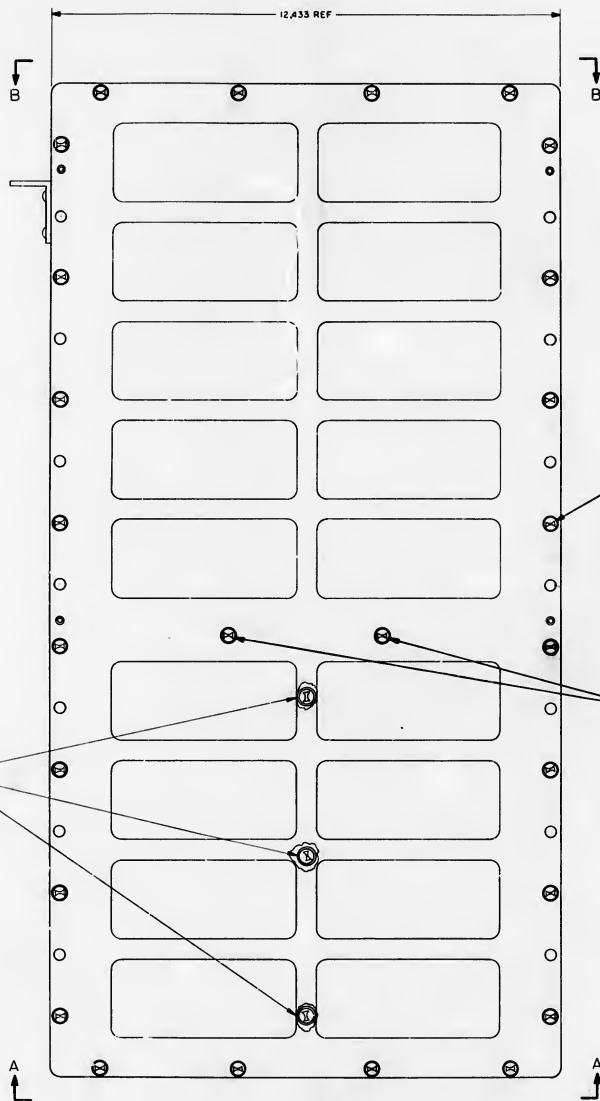
18. REMOVE FIND NO. 58 TO FIND NO. 31 POSITION SHOWN USING 100633 FIXTURE AT ROOM TEMP 24-40° PRIOR TO ASSY
19. REFERENCE MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10
20. THE VALUE OF CI TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART
21. WHEN THE VALUE OF CI IS ZERO NO COMPONENT SHALL BE USED
22. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF CI USING NID002009 METHOD C OR D USING PRIMER PER SC0012513
23. WELD PER NID002005
24. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD
25. FIND NO. 39, 49, 55, 57 TO BE DISCARDED AND REPLACED WITH NEW PARTS EACH TIME THEY ARE DISASSEMBLED
26. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FIND NO. 66. OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED CURE AT ROOM TEMP 24 HRS.

27. STENCILING SHOWN FOR ORIENTATION ONLY
28. KEEP ALL MATING THREADS OF SCREW, TRAY AND MID SPACER INSERTS FREE OF SILICONE COMPOUND
29. FILL FEMALE INSULATORS OF R41 AND R42 CONNECTORS USING FIND NO. 70 PRIOR TO ASSEMBLY OF FIND NO. 5 TO FIND NO. 2

30. FIND NO. 12 ERASABLE MEMORY, SENSE AMPLIFIER MODULES USE EITHER 2003382 OR 2003392
31. FIND NO. 62 ERASABLE MEMORY, SENSE AMPLIFIER MODULES USE EITHER 2003381 OR 2003391
32. BOND FIND NO. 70 MOUNTING EDGES TO FIND NO. 5 PER NID002023, TYPE 3 FINCH 1 ASSEMBLY OF FIND NO. 6
33. SEE SHEET 2
34. SEE SHEET 2

2003383

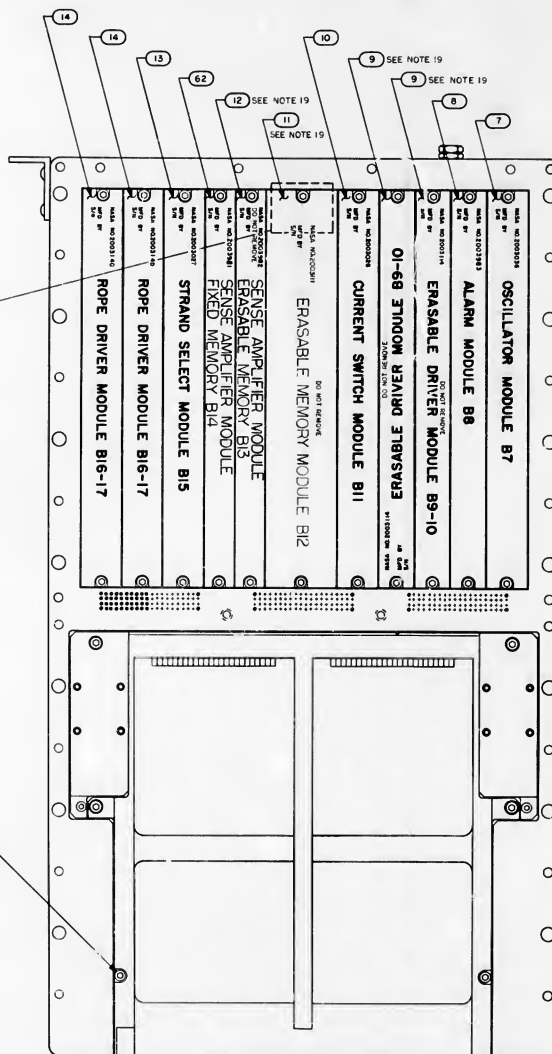
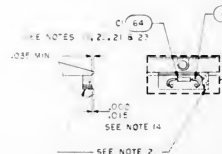
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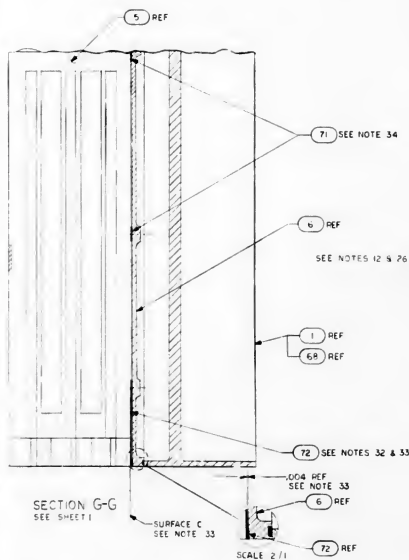
		REV. APPROVED		
REV	DATE	DESCRIPTION	BY	DATE
1	200904-01	AGE WIRE LIST		71
2	2003892-011	SILICON COMPOUND		71
AR	AR	2003892-011	POWER SUPPLY MODULE A30-31	69
1	2003892-041	TRAY B WIRELESS ASSY		66
33	33	2003892-050	SCREW, COATED	62
AR	AR	2003892-060	SEALING COMPOUND, SILICONE RUBBER	64
1	1	2003892-070	IMPLE AND SLEEVE	64
1	1	2003892-080	CAPACITOR	64
10	10	2003892-090	WASHER, FLAT	64
2	2	2003892-100	SCREW, PAN HEAD, FLAT, FIRST MEMORY B3	64
2	2	2003892-110	SCREW, PAN HEAD	61
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	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CONNECTION VALUES ARE IN P- RUSTION VALUES ARE IN O- TOLERANCES ON FINISHES AND BOLD NOT SCALE TYPE DRAWING	M I T INSTRUMENTATION LAB CHANDLER, ARIZ	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
	DRAWN BY <u>Schultz</u> CHECKED BY <u>Wright</u> APPROVED BY <u>[Signature]</u> DATE <u>7/10/68</u>		COMPUTER ASSEMBLY	
200339I	REVISIONS	APPROVED BY <u>[Signature]</u> DATE <u>7/10/68</u>	CODE KEY# NO SUB J	DRAWING NO 2003393
NEXT AYT USED ON		DATE SCALE 1/1		
APPLICATION		REV. SCALE 1/1	SHEET 1 OF 2	

C1	
PART NO.	VALUE UUF
1006777-1	10
-15	150
-18	330
-20	470
-22	680
1006777-23	820
SEE NOTE 21	0
1006777-6	220
1006777-17	270



SECTION D-D

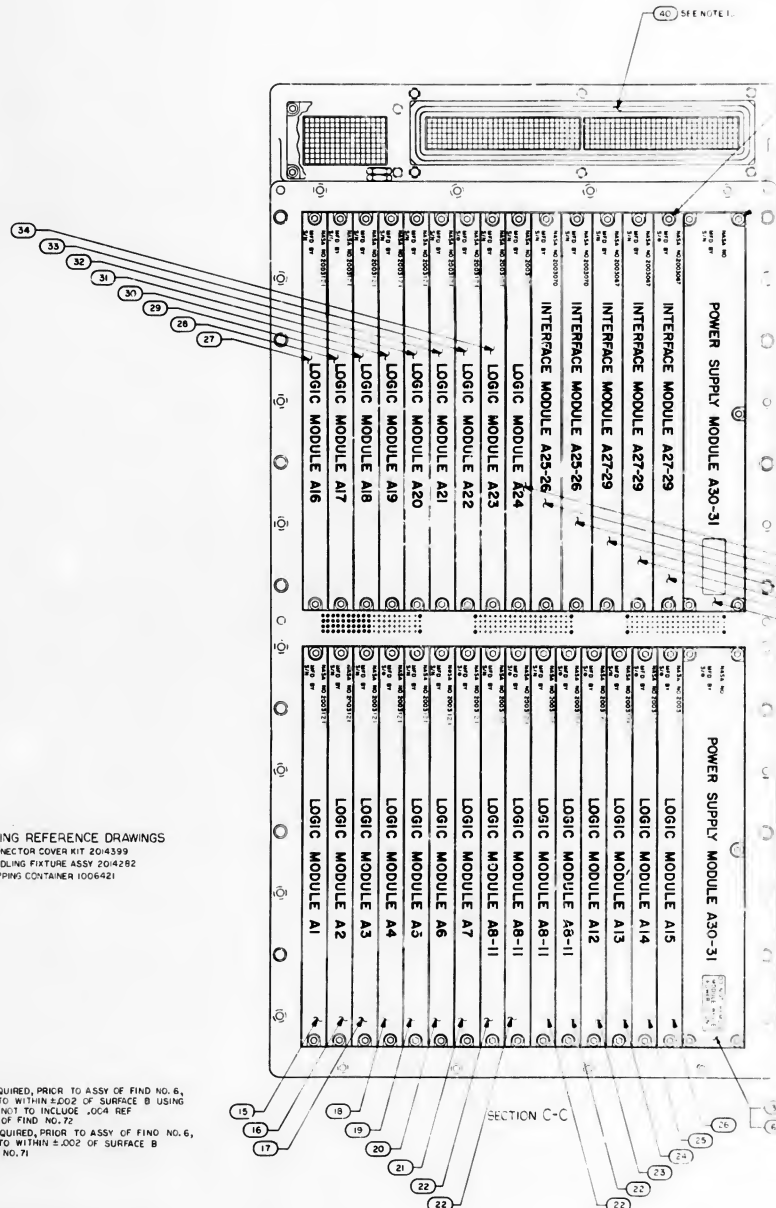


SECTION G-G
SEE SHEET I

SCALE 2 / 11

2003993

F



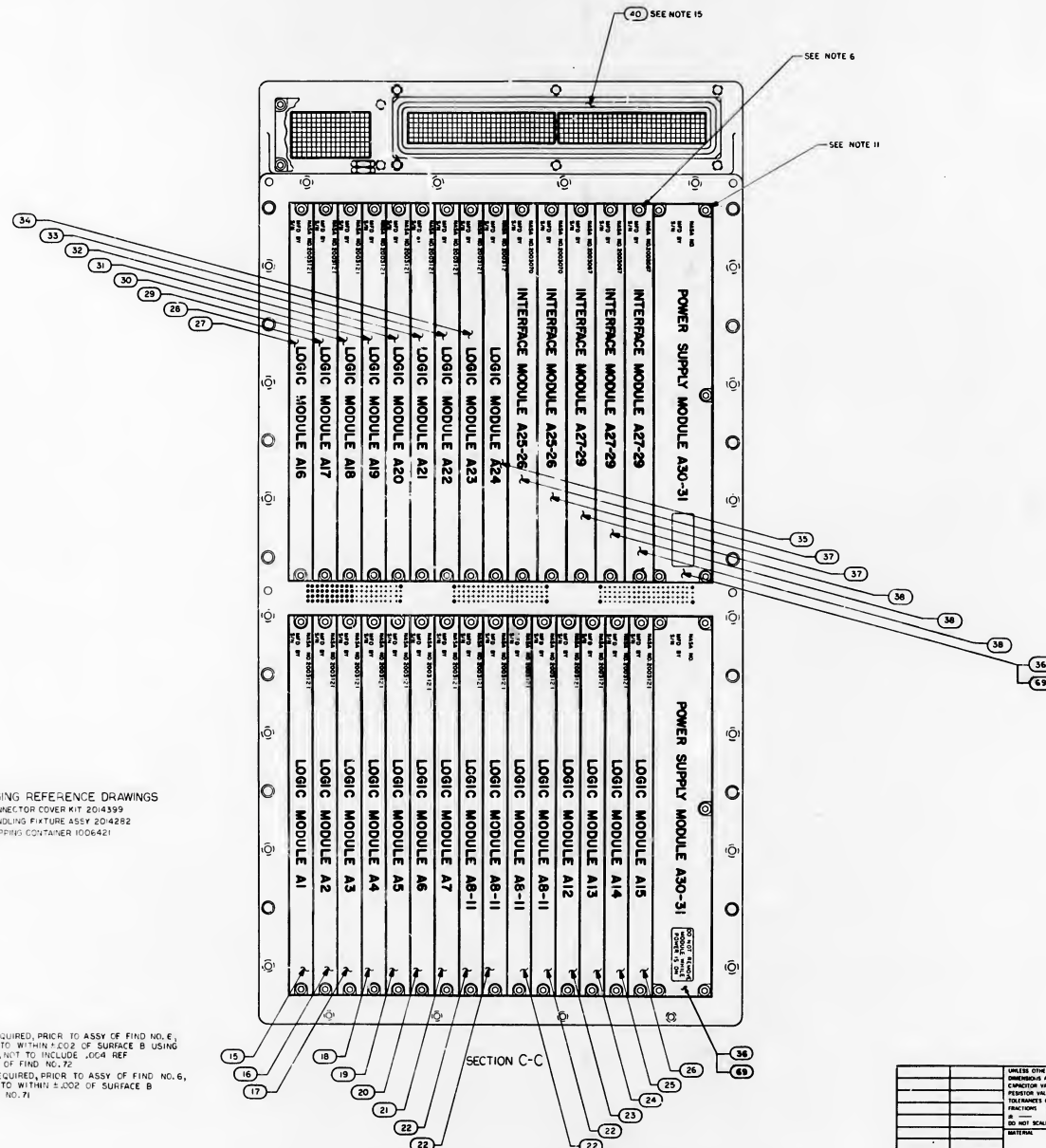
PACKAGING REFERENCE DRAWINGS

1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

NOTES: (CONT.)

33. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B USING
FIND NO. 72, NOT TO INCLUDE .004 REF
DIMENSION OF FIND NO. 72
34. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B
USING FIND NO. 71

REVISIONS						
BY	DATE	DESCRIPTION	DR	CHK	DATE	APPROVAL
		FIG 1 - RELEASE TORR 3368			12/1	
B		RELEASED PER YDRA 32965			12/1	
		FIG 1 - RELEASE TORR 3336			12/1	
		REVISED PER TORR 3336			12/1	
		FIG 1 - RELEASE TORR 3336			12/1	
F		REVISED PER TORP 3362			12/1	



PACKAGING REFERENCE DRAWINGS

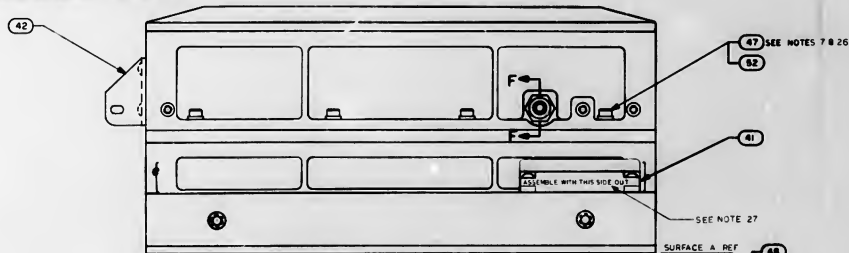
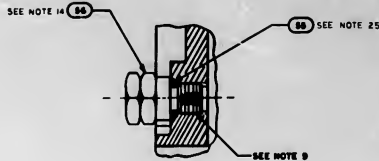
1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

NOTES: (CONT)

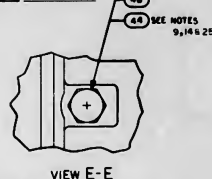
23. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B USING
FIND NO. 72, NOT TO INCLUDE .004 REF
DIMENSION OF FIND NO. 72
24. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B
USING FIND NO. 71

[illegible]

LOCATIONS FOR MODULES			
PART NUMBER	MODULE	MODULE	MODULE
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1000062	1000062	1000062	1000062
1000063	1000063	1000063	1000063
1000064	1000064	1000064	1000064
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1000066	1000066	1000066	1000066
1000067	1000067	1000067	1000067
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1000095	1000095	1000095	1000095
1000096	1000096	1000096	1000096
1000097	1000097	1000097	1000097
1000098	1000098	1000098	1000098
1000099	1000099	1000099	1000099
1000100	1000100	1000100	1000100



VIEW B-B



VIEW A-A

NOTES:

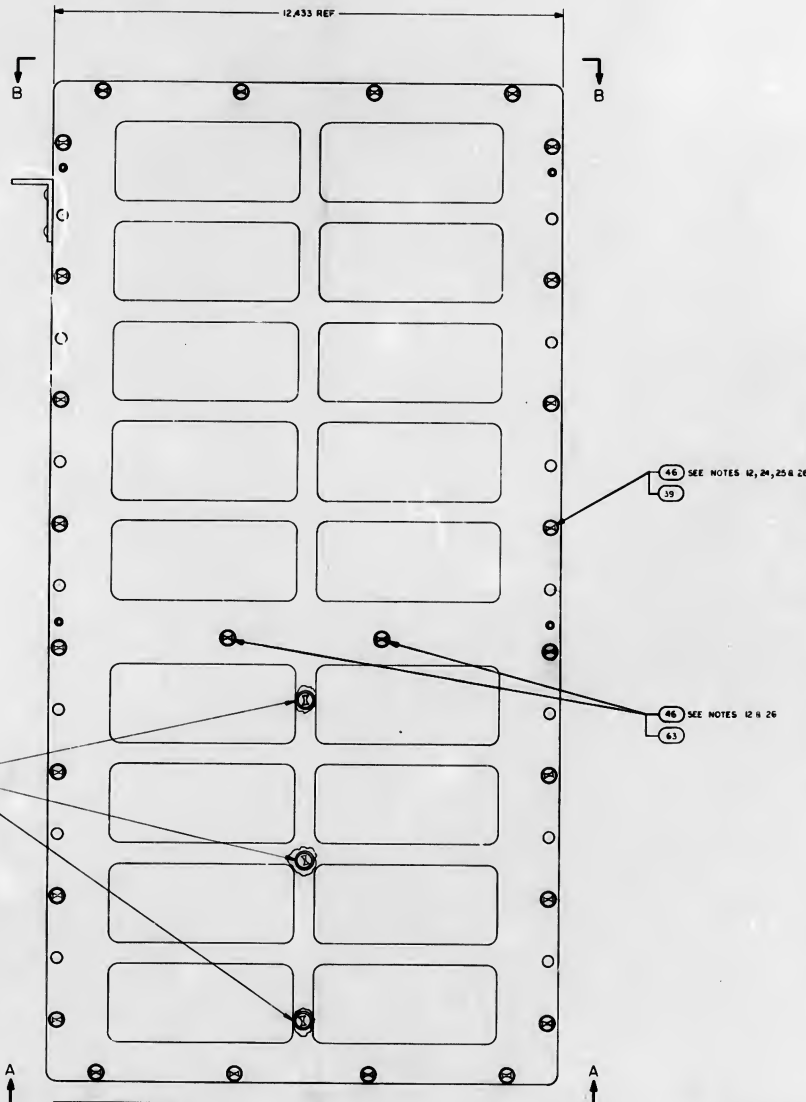
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PHANTOM LINES DENOTE AGC COLDPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. ADD SILICONE COMPOUND 1004679 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES.
4. ASSEMBLE FIND NO. 53 AND FIND NO. 63 TO FIND NO. 2 PRIOR TO ASSEMBLY OF FIND NO. 2 TO FIND NO. 1 OR FIND NO. 58 OR FIND NO. 73.
5. BOND FIND NO. 43 TO FIND NO. 1 OR FIND NO. 63 OR FIND NO. 73 PER 10040204 TYPE II.
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS.
7. TORQUE FIND NO. 47 TO 28/32 INCH POUNDS.
8. FINISH IS REQUIRED TO SATISFY ICD 500-10001.
9. APPLY SEALING COMPOUND MIL-S-22473 GRADE H TO FIND NO. 53, FIND NO. 58 AND FIND NO. 44.
10. COMPLETE ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PR2006007.
11. TORQUE FOR FIND NO. 58 AND FIND NO. 63 MOUNTING SCREWS TO BE 4/5 INCH POUNDS.
12. TORQUE FOR FIND NO. 46, 48, 50 AND 67 TO BE 18/22 INCH POUNDS.
13. TORQUE FOR FIND NO. 53 TO BE 4/6 INCH POUNDS.
14. TORQUE FOR FIND NO. 44 AND FIND NO. 58 TO BE 137/187 INCH POUNDS.
15. FIND NO. 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
16. MAIN COMPUTER ASSEMBLY AND RELATED PARTS, APPLICABLE DESIGNS, SERIAL NO. AND CONTRACT NO. PER 1004260 AND SERIALIZE PER 10040203.
17. FINISH SURFACE [] PER ICD 500-10001-118. THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF ICD 500-10001-01302-118.

18. BOND FIND NO. 58 TO FIND NO. 63 POSITION SHOWN USING 1004332 CURE AT ROOM TEMP 24 HRS. PRIOR TO ASSEMBLY.
19. REFERENCED MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10.
20. THE VALUE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART.
21. WHEN THE VALUE OF C1 IS ZERO NO COMPONENT SHALL BE USED.
22. ENCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF C1 USING 100402009 METHOD C OR D USING PRIMER PER 500102513.
23. WELD PER 100402009.
24. ASSEMBLE HARDWARE WITH SMOOTH FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD.
25. FIND NO. 39, 48, 50, 57 TO BE DISCARDED AND REPLACED WITH NEW UNITS EACH TIME THEY ARE DISASSEMBLED.
26. SEAL EXPOSED HARDWARE ASSEMBLIES WITH .002 MIN THICK COATING OF FIND NO. 66. OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED. CURE AT ROOM TEMP 24 HRS.

27. STENCILING SHOWN FOR ORIENTATION ONLY.
28. KEEP ALL MATING THREADS OF SCREWS, TRAY AND MID SPACER INSERTS FREE OF SILICONE COMPOUND.
29. FILL FEMALE INSULATORS OF B41 AND B42 CONNECTORS USING FIND NO. 70 PRIOR TO ASSEMBLY OF FIND NO. 5 TO FIND NO. 2.

30. FIND NO. 12 ERASABLE MEMORY, SENSE AMPLIFIER MODULE.
31. FIND NO. 62 ERASABLE MEMORY, SENSE AMPLIFIER MODULE.
32. BOND FIND NO. 72 MOUNTING EDGES TO FIND NO. 5 PER 1004260, TYPE II PRIOR TO ASSEMBLY OF FIND NO. 6.
33. SEE SHEET 2.
34. SEE SHEET 2.
35. SEE SHEET 2.
36. SEE SHEET 2.
37. SEE SHEET 2.
38. SEE SHEET 2.

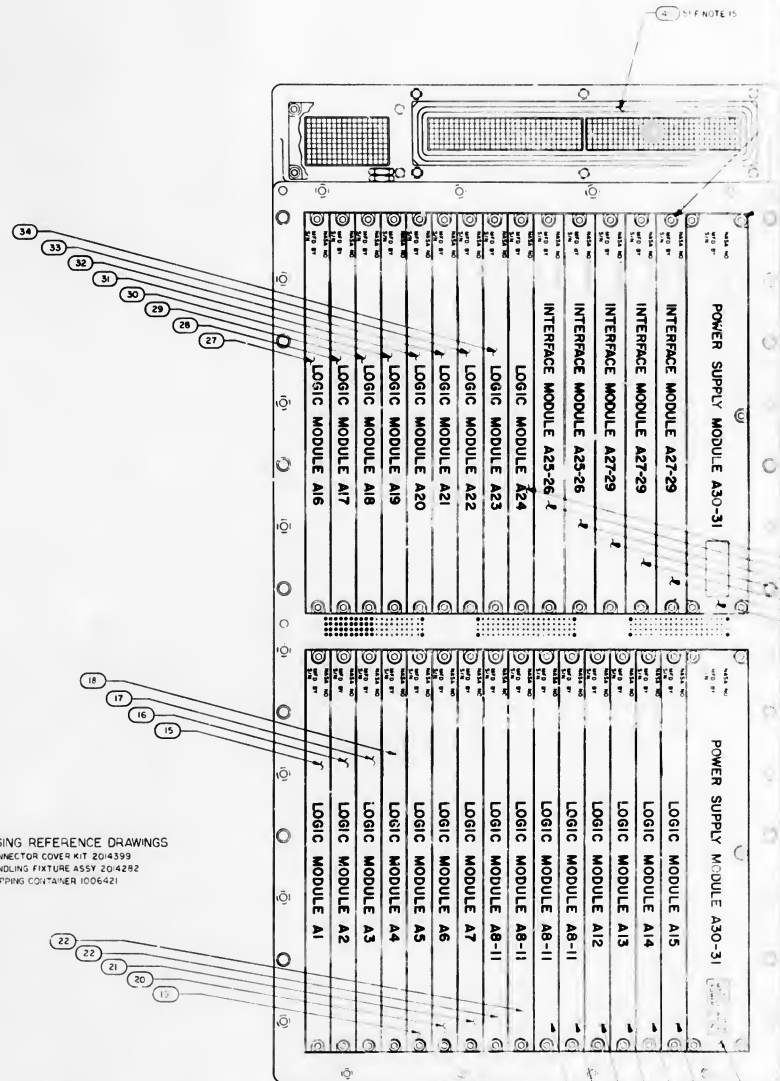
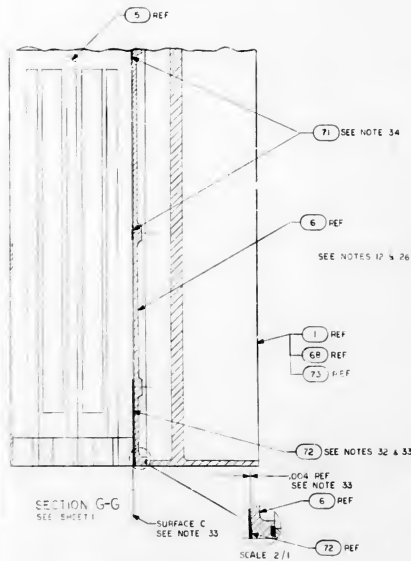
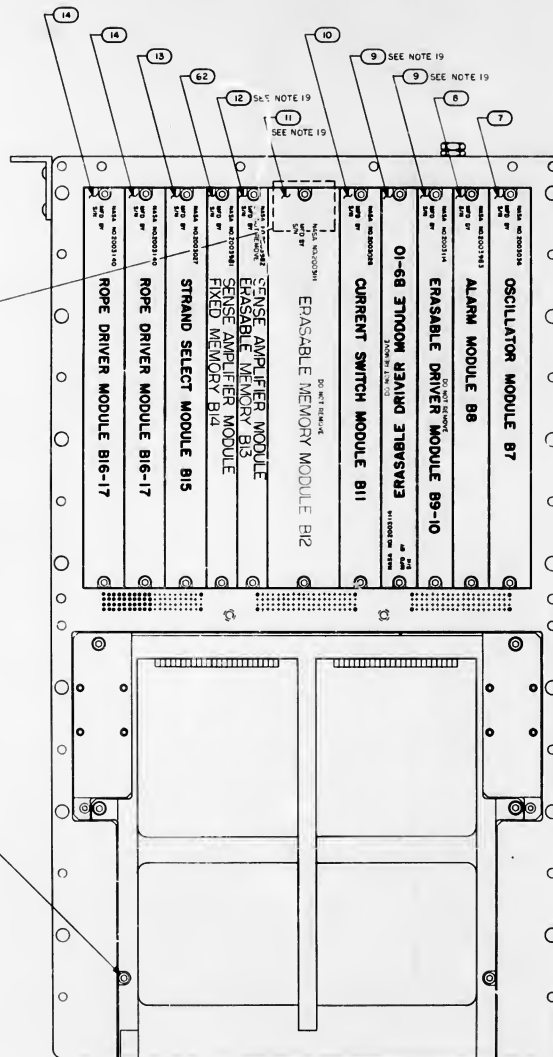
AR	1	200495X-0	SHM ASSY	75
AR	2	200495C-001	SHM ACC	75
1	2	200302-D-01	TRAY A W/HD PDSY	75
AR	2	2-1001	THRM RGE	75
2	2	200302-01	TRAY B W/HD PDSY	75
2005944			ASC WIRE LIST	67
AR	AR	MIL-S-8660	SCREWS COMPOND	75
2	2	2003892-01	POWER SUPPLY MODULE A30-31	67
1	1	1	TRAY A WIRE ASSY	67
33	33	2004722-008	SCREW, COATED	67
AR	AR	44-100638-000	PLATING PREFORM, SILICONE RUBBER	67
AR	AR	1000676-32	INSULATION, SLEEVING ELECTRICAL	67
1	1	1	TRAY B COVER	67
10	10	2004148-007	WASHER, FLAT	67
1	1	2003892-01	SCREW, CAPTIVE	67
AR	AR	2004986-001	SHM AMPER MODULE, FIBER MEMORY B14	67
2	2	2004986-001	SHM AMPER	67
1	1	2004890-001	TRAY VIBRATION	59
2	2	2003892-01	VIBRATION TRD ASSY	59
4	4	WASHER, SEALING		57
1	1	2004873	WASHER, PRESSURE ASSEMBLY	56
1	1	1000139-5	PLATING PREFORM, W/ RING	56
2	2	2004984-001	WASHER, FLAT	56
3	3	2004812	SCREW, THREADED	56
18	18	2004834-014	WASHER, FLAT	56
4	4	2004834-C12	WASHER, FLAT	51
2	2	2004834-26	SCREW, HTR SOCKET HEAD	50
4	4	1004722-2	SCREW, CAPTIVE	49
1	1	2004986-001	SCREW, PREFORM O-RING	47
16	16	2004332-003	SCREW, COATED	47
33	33	2004752-001	SCREW, COATED	46
1	1	2004986-001	SCREW, PLATE	46
2	2	1004986	PLUG, MACHINE THREAD	44
1	1	1004620-01	NAME PLATE, TYPE 2	42
1	1	1004611-001	NAME PLATE, TYPE 1	42
1	1	2003039-011	CONNECTOR ASSEMBLY	41
1	1	1006140	WASHER, FLAT	40
50	50	1004707	WASHER, THREADED	39
3	3	2003067-041	INTERFACE MODULE A27-28	38
2	2	2003067-040	INTERFACE MODULE A25-26	37
2	2	2003887-011	POWER SUPPLY MODULE A30-31	36
1	1	1	LOGIC MODULE A24	35
1	1	1	LOGIC MODULE A23	35
1	1	1	LOGIC MODULE A22	35
1	1	1	LOGIC MODULE A21	35
1	1	1	LOGIC MODULE A20	33
1	1	1	LOGIC MODULE A19	33
1	1	1	LOGIC MODULE A18	30
1	1	1	LOGIC MODULE A17	28
1	1	1	LOGIC MODULE A16	27
1	1	1	LOGIC MODULE A15	25
1	1	1	LOGIC MODULE A14	25
1	1	1	LOGIC MODULE A13	23
1	1	1	LOGIC MODULE A12	23
1	1	1	LOGIC MODULE A11	22
1	1	1	LOGIC MODULE A10	22
1	1	1	LOGIC MODULE A9	20
1	1	1	LOGIC MODULE A8	19
1	1	1	LOGIC MODULE A7	18
1	1	1	LOGIC MODULE A6	17
1	1	1	LOGIC MODULE A5	16
1	1	1	LOGIC MODULE A4	15
1	1	1	LOGIC MODULE A3	15
1	1	1	LOGIC MODULE A2	15
1	1	1	LOGIC MODULE A1	15
2	2	2003014-0-C31	DRIVER MODULE, B11-17	14
2	2	2003013-01	DRIVER MODULE, B11-17	14
1	1	1	SENSE AMPER MOD, ERASABLE MEMORY B13	2
2	2	2003111-021	ERASABLE DRIVER MODULE #2	11
2	2	2003056-011	ERASABLE DRIVER MODULE #1	11
2	2	2003114-021	ERASABLE DRIVER MODULE D19-D	9
2	2	2003062-01	ERASABLE DRIVER MODULE B18	9
2	2	2003036-001	OSCILLATOR MODULE #9	7
1	1	2003578-001	MOD SPACER	6
1	1	2003515-021	TRAY A SHIM W/HEAT ASSEMBLY	5
1	1	2003574-011	TRAY B COVER	4
1	1	2003517-01	TRAY A COVER	3
1	1	2003093-001	TRAY B W/HEAT ASSEMBLY	2
1	1	2004982-001	TRAY A W/HEAT ASSEMBLY	2
1	1	2004982-001	TRAY B W/HEAT ASSEMBLY	2
1	1	2004982-001	TRAY C W/HEAT ASSEMBLY	2
1	1	2004982-001	TRAY D W/HEAT ASSEMBLY	2
1	1	2004982-001	TRAY E W/HEAT ASSEMBLY	2
1	1	2004982-001	TRAY F W/HEAT ASSEMBLY	2</



NOTE APPLICATION	
DASH NO.	NOTES APPL'ABLE
-011	1 THRU 34 & 37
-021	1 THRU 35, 37 & 38
-031	1 THRU 31 & 36

[illegible]

CI	
PART NO.	VALUE UUF
1006777-1	10
-15	150
-18	330
-20	470
-22	680
1006777-23	820
SEE NOTE 21	0
1006777-6	270
1006777-17	270



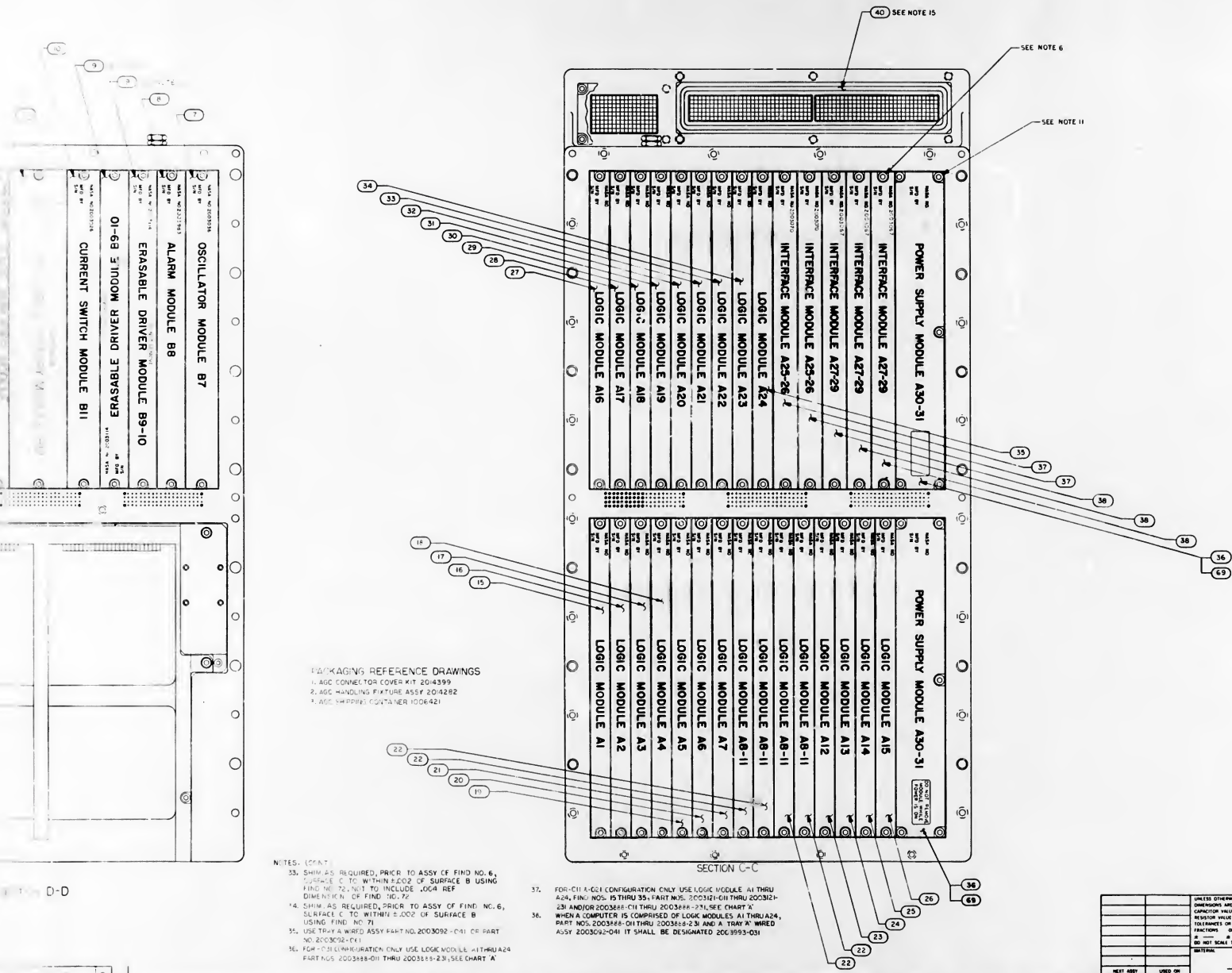
NOTES: (CONT.)

- PACKAGING REFERENCE DRAWINGS
1. AGC CONNECTOR COVER KIT 2014399
 2. AGC HANDLING FIXTURE ASSY 2014282
 3. AGC SHIPPING CONTAINER 1006421

- NOTES: (CGNT.)
33. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B USING
FIND NO. 72, NOT TO INCLUDE .004 REF
DIMENSION OF FIND NO. 72
34. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B
USING FIND NO. 71
35. USE TRAY A WIRED ASSY PART NO. 2003092-041 OR PART
NO. 2003092-061
36. FOR -03 CONFIGURATION, ONLY USE LOGIC MODEL WITH RU#24
PART NOS 2003885-01 THRU 2003888-25, SEE CHART "A"

37. FOR C11 C11 CONFIGURATION ONLY USE LOGIC ADDRESS 1 THROUGH 424. FIN. NOS. 15 THRU 35. PART NOS. 2003666-CH1 THRU 2003666-CH231 AND/OR 2003666-CH1 THRU 2003666-1556 CH1 THRU 2003666-1556 CH231.
38. WHEN A COMPUTER IS COMPRISED OF LOGIC MODULES 1 THROUGH 424 PART NOS. 2003666-CH1 THRU 2003666-231 AND A TERMINATED BUSY 2003666-041 IT SHALL BE DESIGNATED 2003666-031.

REVISIONS				
REV	DATE	DESCRIPTION	BY	APP
A	10/1/68	REVISED PER TORR 33285	100W	100W
B	10/1/68	REVISED PER TORR 33285	100W	100W
C	10/1/68	REVISED PER TORR 33285	100W	100W
D	10/1/68	REVISED PER TORR 33285	100W	100W
E	10/1/68	REVISED PER TORR 33285	100W	100W
F	10/1/68	REVISED PER TORR 33285	100W	100W
G	10/1/68	REVISED PER TORR 33285	100W	100W



PACKAGING REFERENCE DRAWINGS
 1. AGC CONNECTOR COVER KIT 204399
 2. AGC HANDLING FIXTURE ASSY 204282
 3. AGC SHIPPING CONTAINER 1006421

- NOTES: LOCAT
33. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN .002 OF SURFACE B USING FIND NO. 72; NOT TO INCLUDE .004 REF DIMENSION OF FIND NO. 72
 34. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN .002 OF SURFACE B USING FIND NO. 71
 35. USE TRAY A WIRE ASSY PART NO. 2003092-C01 OR PART NO. 2003092-C11
 36. FOR THIS CONFIGURATION ONLY USE LOGIC MODULE A1 THRU A24 PART NOS. 200388-01 THRU 200388-23; SEE CHART 'A'

37. FOR CHA-C01 CONFIGURATION ONLY USE LOGIC MODULE A1 THRU A24; FIND NOS. 19 THRU 35; PART NOS. 200388-01 THRU 200388-23 AND/OR 200388-24; SEE CHART 'A'
38. WHEN A COMPUTER IS COMPRISED OF LOGIC MODULES A1 THRU A24, PART NOS. 200388-01 THRU 200388-23 AND A TRAY A WIRE ASSY 2003092-041 IT SHALL BE DESIGNATED 2003993-031

REV	PART OR IDENTIFYING NO	NAME, ADDRESS OR TELEPHONE	REV
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
COMPUTER ASSEMBLY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE IN 16 FRACTIONS ARE IN 32 TOLERANCES OR DO NOT SCALE THIS DRAWING		M.I.T. INSTRUMENTATION LAB CAMBRIDGE, MASS DRAWN: [Signature] CHECKED: [Signature] APPROVED: [Signature] DATE: [Date]	
NEXT ASSY: [Blank] USED ON: [Blank] APPLICATION: [Blank]		CODE KEY: NO. 80230 J SCALE: [Blank] DATE: [Blank]	
APPROVED: [Signature] DATE: [Date]		DRAWING NO. 2003993 SHEET 2 OF 2	

□



2

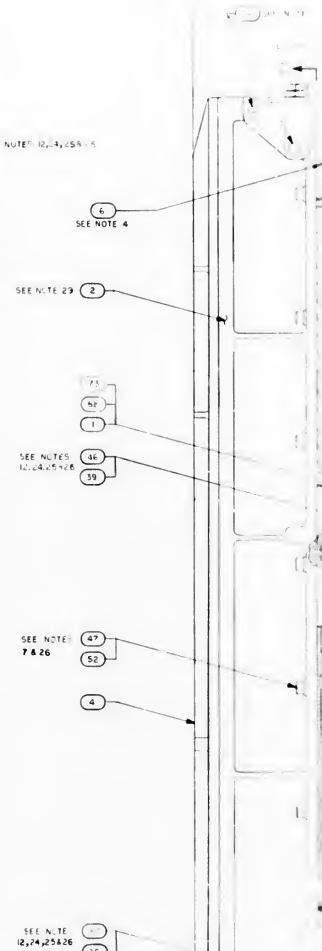


1. BOND FINE NO. 58 TO FINE 63 POSITION SHOWN ON
USING 1006338 CURE AT ROOM TEMP 24HRS POWER TO ASSAY
2. INCREASED MODULUS MUST NOT BE REPLACED
OR INTERCHANGED WITHOUT APPROVED
SELECTION PROCEDURE FROM NIST ID
3. THE VALUE OF ρ TO BE DETERMINED ELECTRICAL
TESTS AND SELECTED FROM THE CHART
4. WHEN THE VALUE OF ρ IS ZERO NO ρ MOVEMENT SHALL BE USED
5. FIBERS OF 1006338 SHALL BE USED FOR INSTALLATION
OF USING IND002005 METHOD OR 1006338 FIBER PER SCD01513
6. WELD PER IND002005
7. ASSEMBLE THE WELD WITH SMOOTH FACE OF FINE 63
IN CONTACT WITH SCREW HEAD
8. FINE 63 PER 39, 46, 51, 55 TO BE DISCARDED AND REPLACED WITH NEW
FINE 63 IF THEY ARE DAMAGED OR SAMPLED
9. REAL GAPPED HARDWARE ASSEMBLIES WITH JOE MITT THICK COATING
OF FINE NO. 63. GAPPED HARDWARE ASSEMBLY DIMENSIONS
SHALL BE RECHECKED CURE



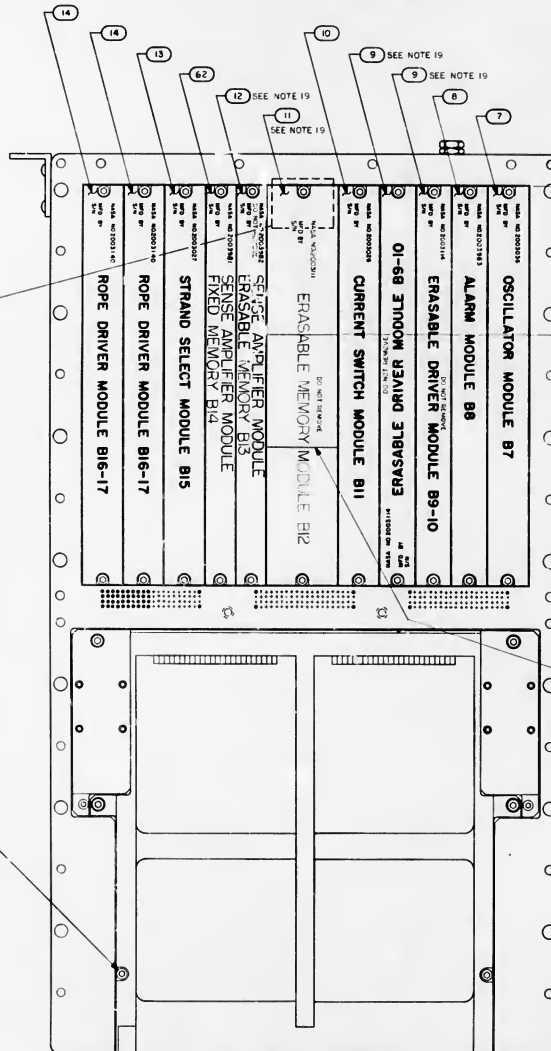
- [illegible]

2003 93



1

C1	
PART NO.	VALUE
066777-1	0
-15	150
-16	350
-20	470
-22	680
066777-23	820
SEE NOTE 21	0
066777-24	220
066777-25	50



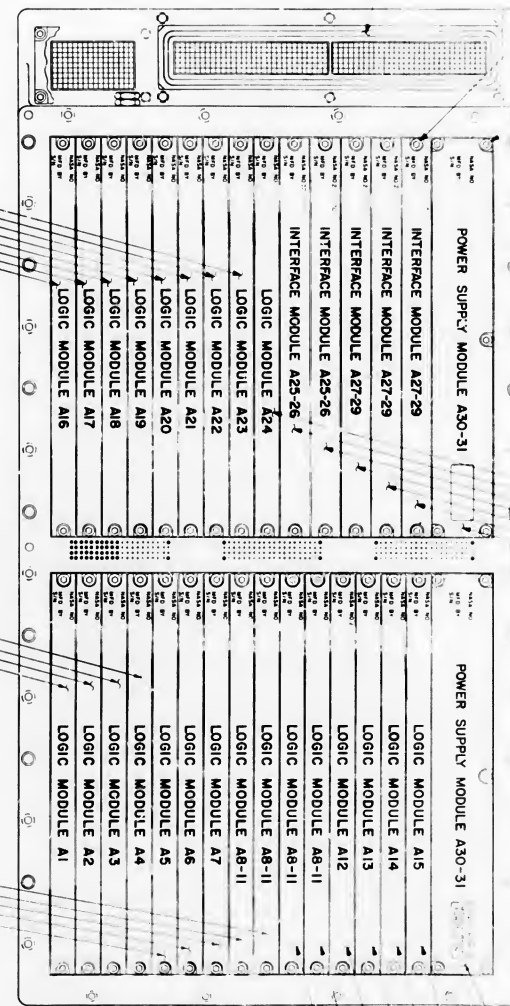
3.70
5.65
SEE NOTE 41

PACKAGING REFERENCE DRAWINGS

1. ACC CONNECTOR COVER KIT 2014399
2. ACC HANDLING FIXTURE ASSY 2014282
3. ACC SHIPPING CONTAINER 1006421

NOTES: (CONT.)

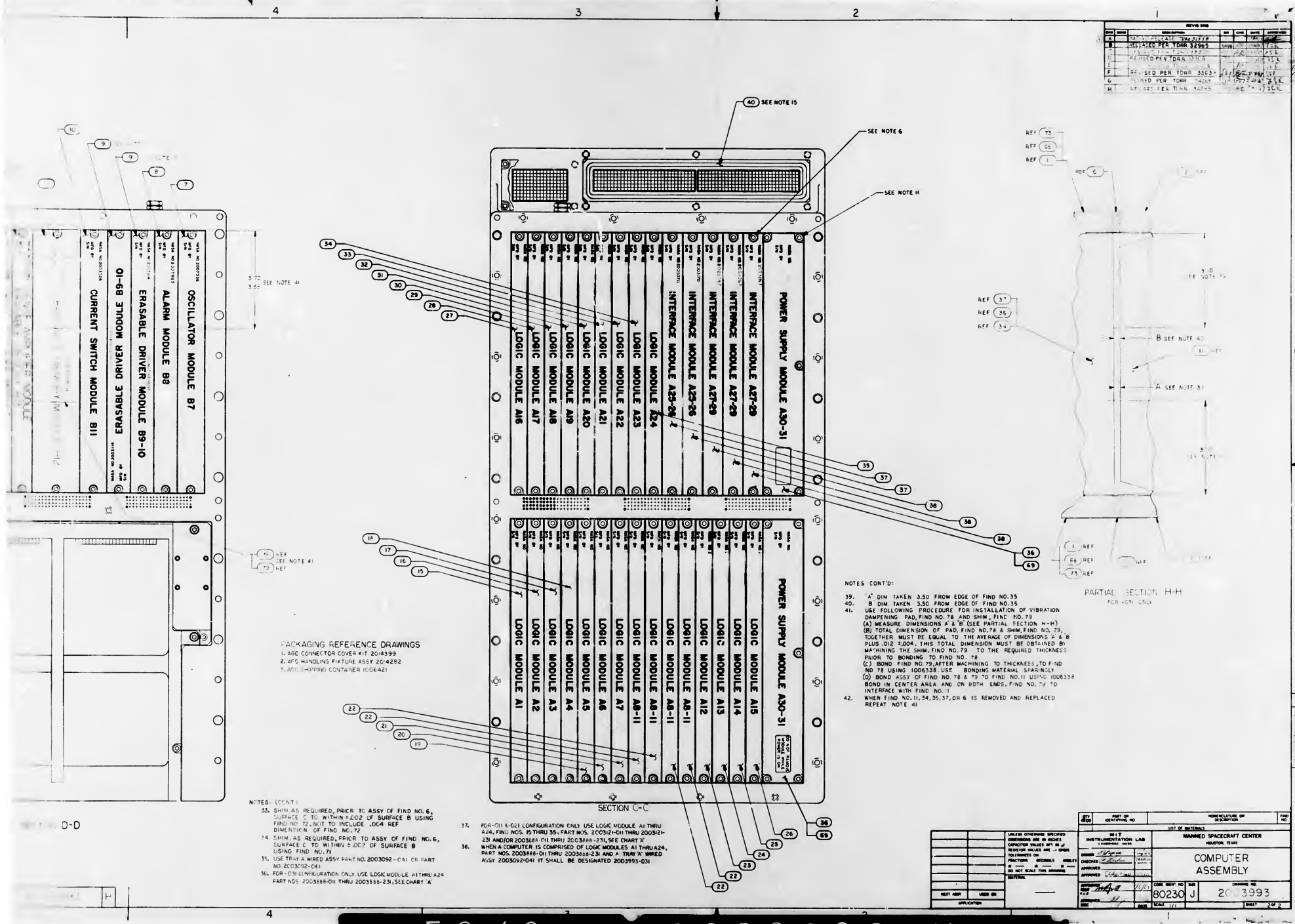
33. SHIM AS REQUIRED, PRIOR TO ASSY OF FND NO. 6, SURFACE C TO WITHIN 5.002 OF SURFACE B USING FND NO. 72, NOT TO INCLUDE LOG4 REF DIMENSION OF FND NO. 72.
34. SHIM AS REQUIRED, PRIOR TO ASSY OF FND NO. 6, SURFACE C TO WITHIN 5.002 OF SURFACE B USING FND NO. 71.
35. USE TRAY A WIRE ASSY PART NO. 2003092 - C4, OR PART NO. 2003092 - C61.
36. FOR C31 CONFIGURATION ONLY USE LOG4 MODULE WITH THRU A24 PART NOS. 2003088-011 THRU 2003088-231; SEE CHART A.



37. FOR C31 C31 CONFIGURATION ONLY USE LOG4 MODULE WITH THRU A24 PART NOS. 2003088-011 THRU 2003088-231; SEE CHART A.
38. WHEN A COMPUTER IS COMPOSED OF LOGIC MODULES, THE PART NO. 2003092 - C41 THRU 2003092 - C61 AND A TRAY A WIRE ASSY 2003092-011 SHALL BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF THE DRAWING.

2003993

H



REV	DATE	DESCRIPTION	BY	CHK	APP
B		REVISED PER TORR 32665			
C		REVISED PER TORR 33505			
F		REVISED PER TORR 33635			
G		REVISED PER TORR 34625			
H		REVISED PER TORR 34725			

PACKAGING REFERENCE DRAWINGS
1. AGC CONNECTOR COVER KIT 204399
2. APC HANDLING FIXTURE ASSY 204292
3. AGC SHIPPING CONTAINER 100421

- NOTES: (CONT.)
- 33. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN $\pm .002$ OF SURFACE B USING FIND NO. 72, NOT TO INCLUDE .004 REF DIMENSION OF FIND NO. 72.
 - 34. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN $\pm .002$ OF SURFACE B USING FIND NO. 71.
 - 35. USE TRAY A WIRE ASSY PART NO. 2003092-C41 OR PART NO. 2003092-C61.
 - 36. FOR C-31 CONFIGURATION ONLY USE LOGIC MODULE A1 THRU A24, FIND NOS. 15 THRU 35, PART NOS. 2003032-C11 THRU 2003032-23 AND/OR 2003038-C11 THRU 2003038-23, SEE CHART 'A'.
 - 37. FOR C-11 A-C21 CONFIGURATION ONLY USE LOGIC MODULE A1 THRU A24, FIND NOS. 15 THRU 35, PART NOS. 2003032-C11 THRU 2003032-23 AND/OR 2003038-C11 THRU 2003038-23, SEE CHART 'A'.
 - 38. WHEN A COMPUTER IS COMPOSED OF LOGIC MODULES A1 THRU A24, PART NOS. 2003038-C11 THRU 2003038-23, AND A TRAY 'A' WIRE ASSY 2003092-C41 IT SHALL BE DESIGNATED 2003993-C31.

- NOTES CONT'D:
- 39. 'A' DIM TAKEN 3.50 FROM EDGE OF FIND NO. 35.
 - 40. 'B' DIM TAKEN 3.50 FROM EDGE OF FIND NO. 35.
 - 41. USE FOLLOWING PROCEDURE FOR INSTALLATION OF VIBRATION DAMPENING: PAD FIND NO. 74 AND SHIM FIND NO. 79.
(A) MEASURE DIMENSIONS A & B (SEE PARTIAL SECTION H-H).
(B) TOTAL DIMENSION OF PAD, FIND NO. 74 & SHIM FIND NO. 79, TOGETHER MUST BE EQUAL TO THE AVERAGE OF DIMENSIONS A & B PLUS $\pm .002$. THIS TOTAL DIMENSION MUST BE OBTAINED BY MACHINING THE SHIM, FIND NO. 79, TO THE REQUIRED THICKNESS PRIOR TO BONDING TO FIND NO. 74.
(C) BOND FIND NO. 79 AFTER MACHINING TO THICKNESS TO FIND NO. 74 USING 1006338 USE BONDING MATERIAL SPARINGLY.
(D) BOND ASSY OF FIND NO. 74 & 79 TO FIND NO. 11 USING 1006338 BOND IN CENTER AREA AND ON BOTH ENDS, FIND NO. 79 TO INTERFERENCE WITH FIND NO. 11.
 - 42. WHEN FIND NO. 11, 34, 35, 37, OR 6 IS REMOVED AND REPLACED REPEAT NOTE 41.

PARTIAL SECTION H-H
FOR DIM ONLY

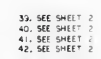
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INSTRUMENTATION LAB		MANUFACTURING CENTER	
COMPUTER ASSEMBLY		COMPUTER ASSEMBLY	
80230 J		203993	
SCALE 1:1		SHEET 2 OF 2	

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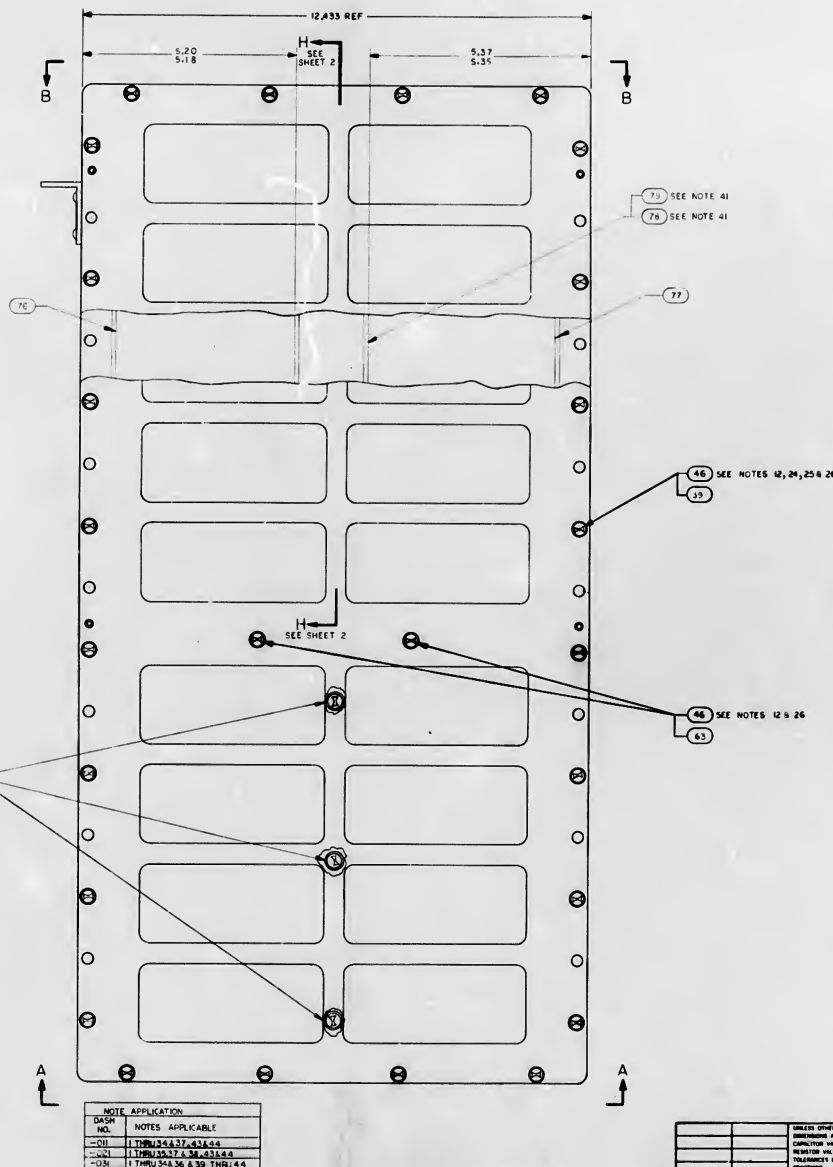
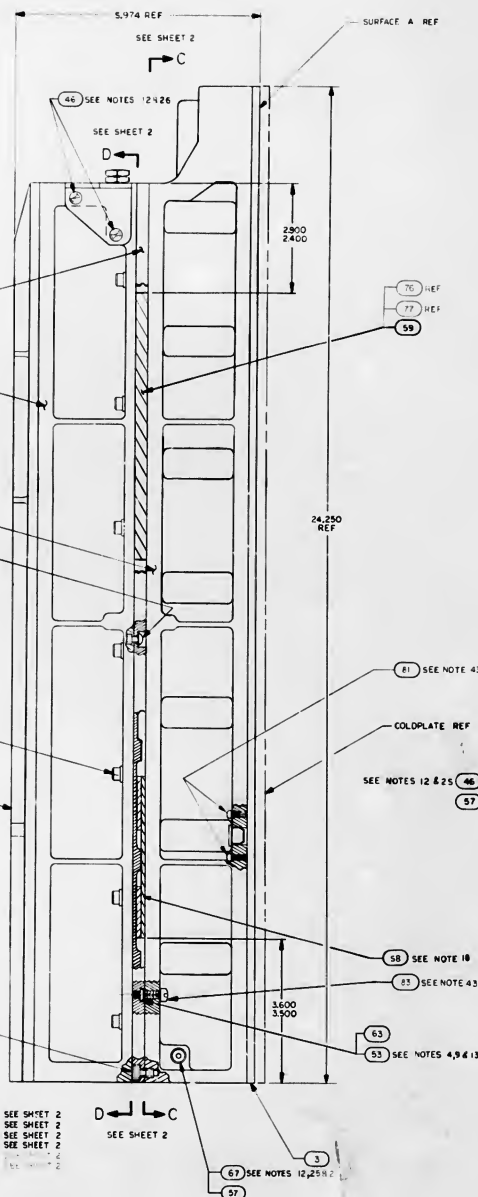
- A



29. FILL FEMALE INSULATORS OF B41 AND B42 CONNECTORS USING FIND NO. 70 PRIOR TO ASSEMBLY CAKING NO. 6 TO FIND N/2

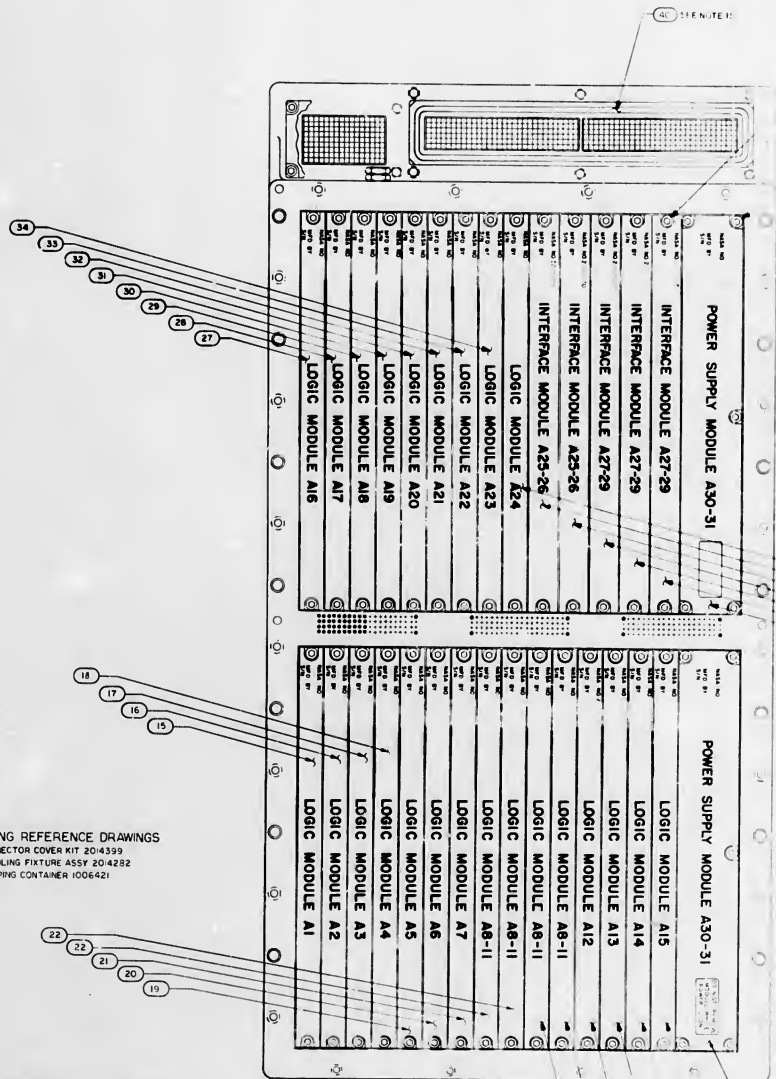
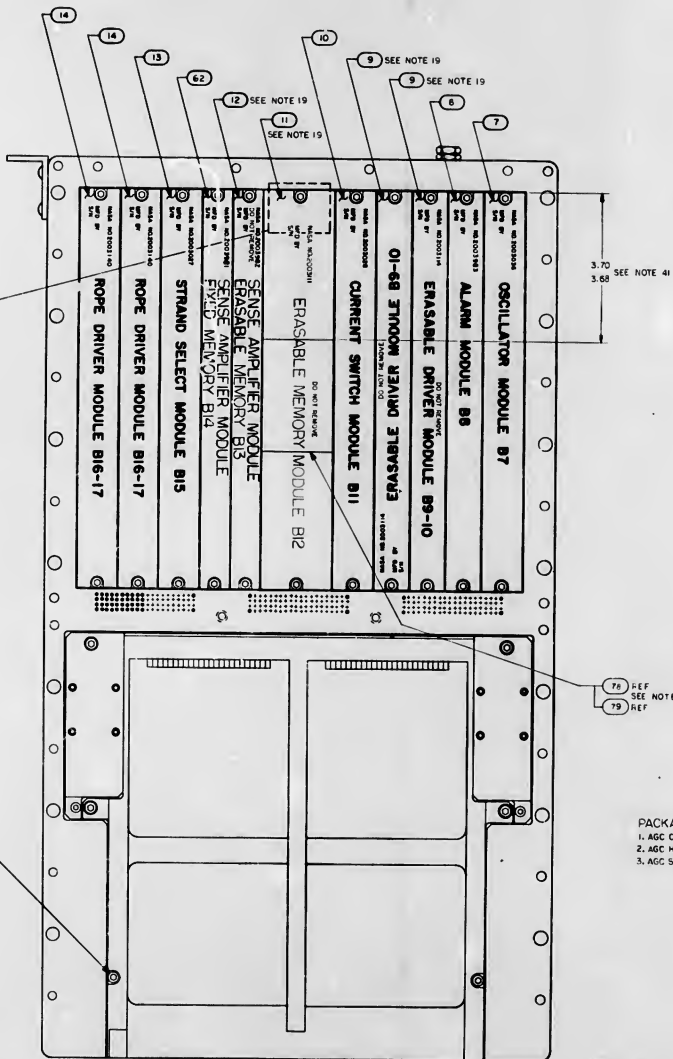
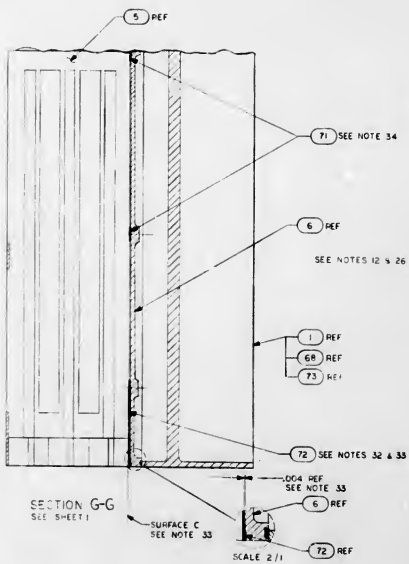
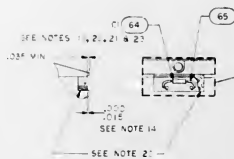


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NO.	DATE	BY	APP.	DESCRIPTION
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3	REVISION PER TORR 34265			
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5	REVISION PER TORR 34265			
6	REVISION PER TORR 34265			
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9	REVISION PER TORR 34265			
10	REVISION PER TORR 34265			



NO.	DATE	BY	APP.	DESCRIPTION
1	INITIAL DESIGN			
2	REVISION PER TORR 34265			
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7	REVISION PER TORR 34265			
8	REVISION PER TORR 34265			
9	REVISION PER TORR 34265			
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55	REVISION PER TORR 34265			

CI	
PART NO.	VALUE UUF
1006777-1	10
-15	150
-18	330
-20	470
-22	680
1006777-23	820
SEE NOTE 21	0
1006777-3	220
1006777-7-1	270

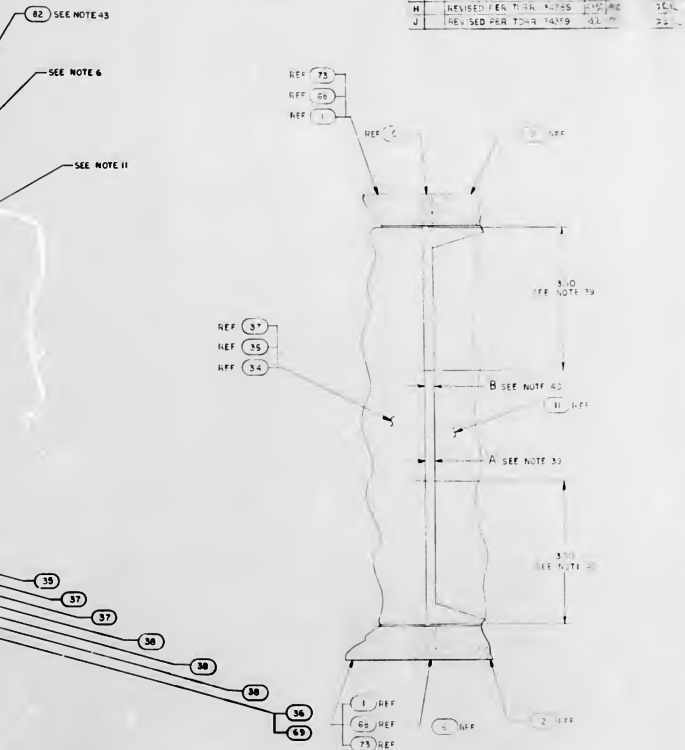
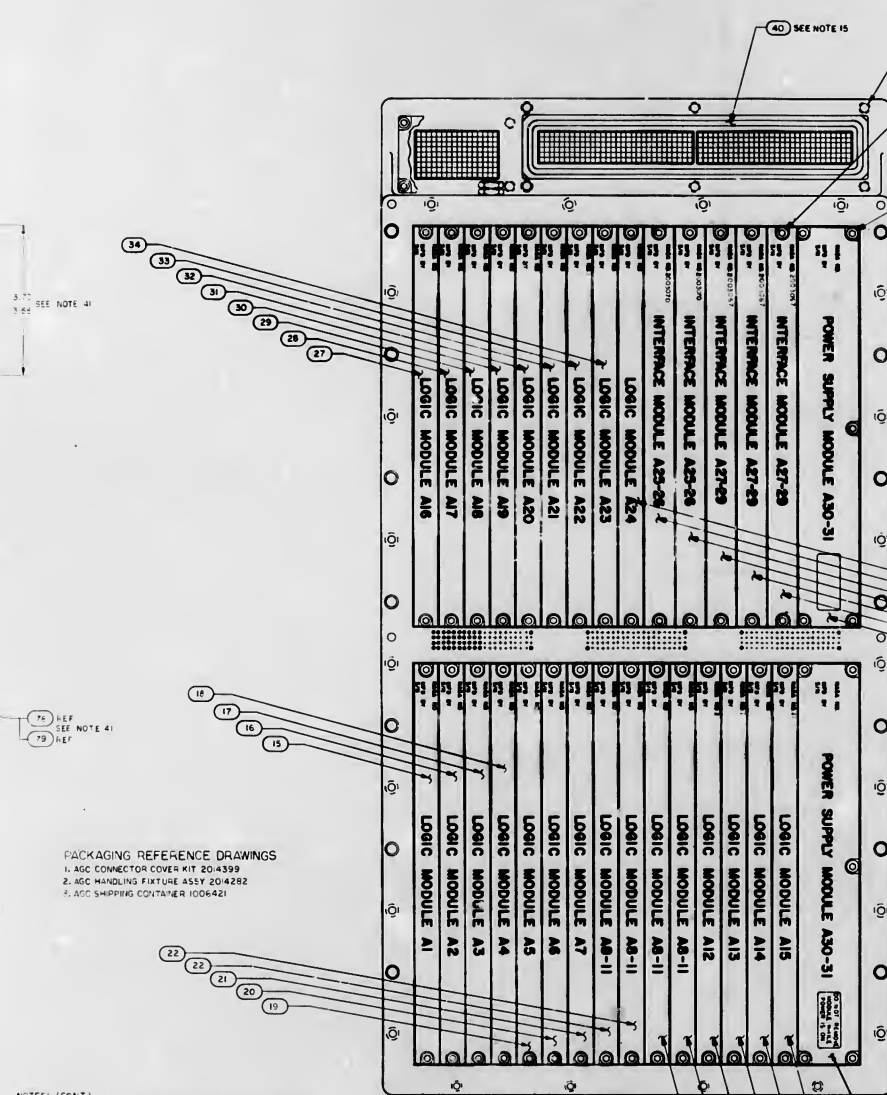
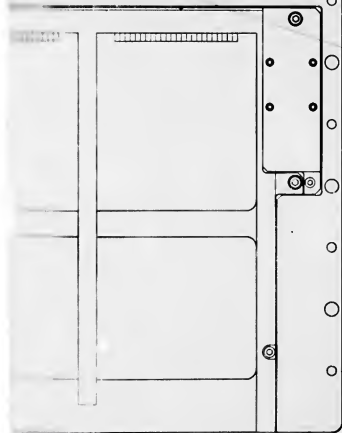
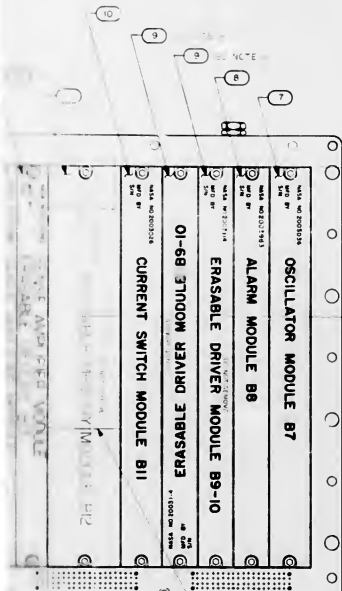


NOTES: (CONT.)

- PACKAGING REFERENCE DRAWINGS
1. AGC CONNECTOR COVER KIT 2014399
 2. AGC HANDLING FIXTURE ASSY 2014282
 3. AGC SHIPPING CONTAINER 1006421

34. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B
USING FIND NO. 71
35. USE TRAY A WIRED ASSY PART NO. 2003092 - C41 CP PART
NO. 2003092-061
36. FOR -031 CONFIGURATION ONLY USE LOGIC MODULE #1THRU#24
FOR -032 CONFIGURATION -01 THRU -03200388-23I, SEE CHART 'A'

37. FOR C11 & C21 CONFIGURATION ONLY USE LOGIC MODULE WITHIN A24, FIND NOS. IS THRU 35; PART NOS. 200368-21, 200368-22, 200368-23 AND/OR 200368-01 THRU 200368-21, SEE CHART A.
38. WHEN A COMPUTER IS COMPOSED OF LOGIC MODULES AT THRU 24, PART NOS. 200368-01 THRU 200368-23 AND A TRAY A WHEDED ASSY 2003092-041 IT SHALL BE DESIGNATED 200368-01.



PACKAGING REFERENCE DRAWINGS
 1. AGC CONNECTOR COVER KIT 20-4399
 2. AGC HANDLING FIXTURE ASSY 20-4282
 3. AGC SHIPPING CONTAINER 100-421

NOTES: (CONT.)

33. SHIM A5 REQUIRED PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN .002 OF SURFACE B USING FIND NO. 72. NUT TO INCLUDE .004 REF DIMENSION OF FIND NO. 72.
34. SHIM A5 REQUIRED PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN .002 OF SURFACE B USING FIND NO. 71.
35. USE TRAY A WIRE ASSY PART NO. 2003092-041 OR PART NO. 2003092-061.
36. FOR -031 CONFIGURATION ONLY USE LOGIC MODULE A1 THRU A24. PART NOS. 200388-01 THRU 200388-24, SEE CHART A.

37. FOR -011 & -021 CONFIGURATION ONLY USE LOGIC MODULE A1 THRU A24. FIND NOS. 15 THRU 35. PART NOS. 200382-01 THRU 200382-24 AND/OR 200388-01 THRU 200388-24. SEE CHART A.
38. WHEN A COMPUTER IS COMPRISED OF LOGIC MODULES A1 THRU A24, PART NOS. 200388-01 THRU 200388-24 AND A TRAY A WIRE ASSY 2003092-041 IT SHALL BE DESIGNATED 2003993-031.

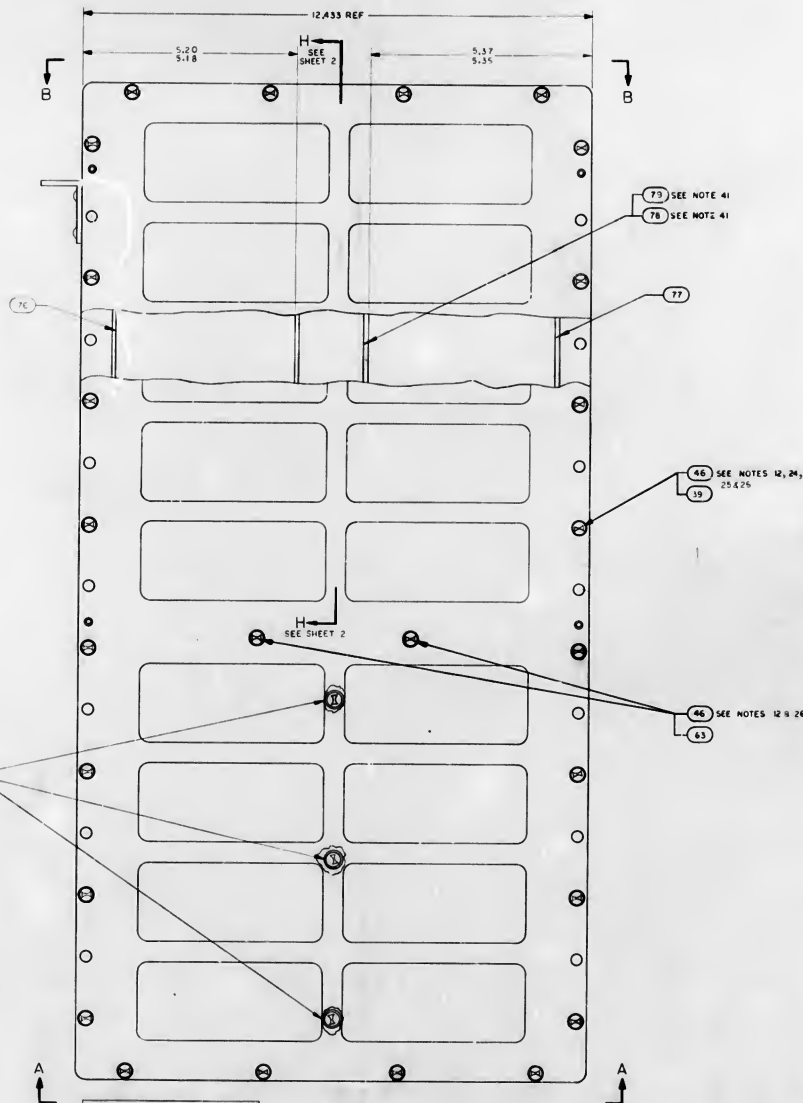
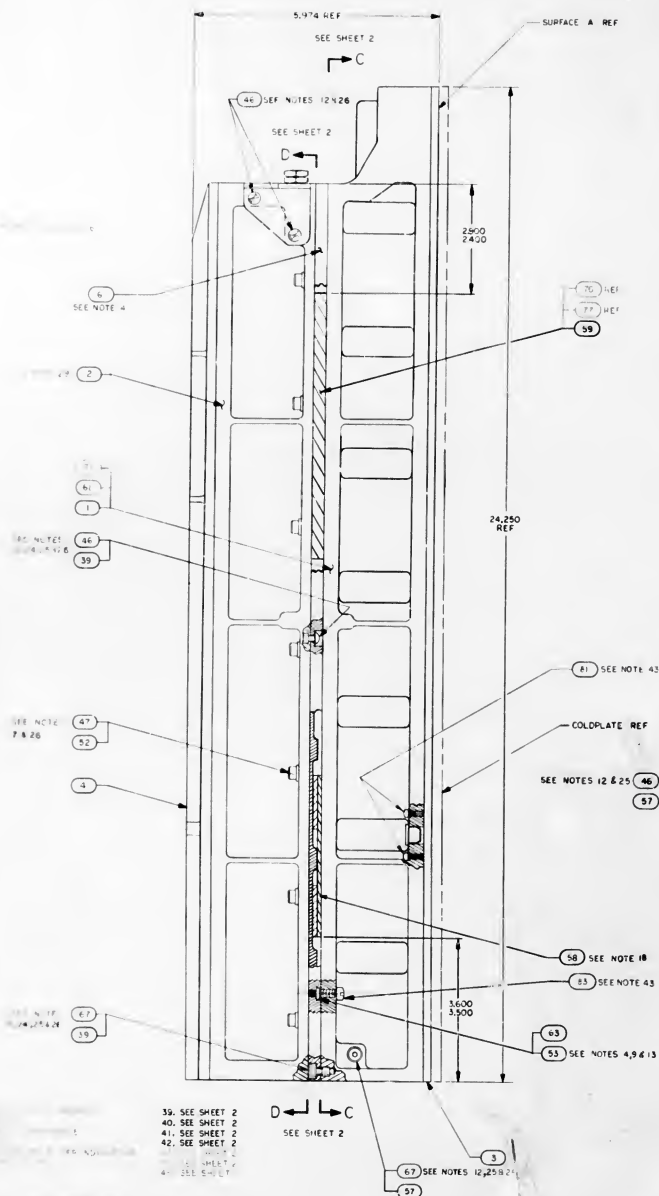
NOTES CONT'D:

39. "A" DIM TAKEN 3.50 FROM EDGE OF FIND NO. 35.
40. "B" DIM TAKEN 3.50 FROM EDGE OF FIND NO. 35.
41. USE FOLLOWING PROCEDURE FOR INSTALLATION OF VIBRATION DAMPENING PAD, FIND NO. 78 AND SHIM, FIND NO. 79.
 (A) MEASURE DIMENSIONS A & B (SEE PARTIAL SECTION H-H).
 (B) TOTAL DIMENSION OF PAD, FIND NO. 78 & SHIM, FIND NO. 79, TOGETHER MUST BE EQUAL TO THE AVERAGE OF DIMENSIONS A & B PLUS .012 \pm .004. THIS TOTAL DIMENSION MUST BE OBTAINED BY MACHINING THE SHIM, FIND NO. 79 TO THE REQUIRED THICKNESS PRIOR TO BONDING TO FIND NO. 78.
 (C) BOND FIND NO. 79 AFTER MACHINING TO THICKNESS, TO FIND NO. 78 USING 1006338 USE BONDING MATERIAL SPARINGLY.
 (D) BOND ASSY OF FIND NO. 78 & 79 TO FIND NO. 11 USING 1006338 BOND IN CENTER AREA AND ON BOTH ENDS, FIND NO. 79 TO INTERFACE WITH FIND NO. 11.
42. WHEN FIND NO. 11, 24, 25, 37, OR 6 IS REMOVED AND REPLACED REPEAT NOTE 41.
43. FIND NOS. 81 THRU 84 TO BE USED AT ALL TIMES. THREADED HOLES ARE NOT IN USE. THIS INCLUDES SHIPPING. ALL SCREWS SHALL BE TORQUED SUFFICIENTLY TO SEAL THREADED HOLE. FIND NO. 83 TO BE TORQUED 7.0 TO 8.5 IN/LBS.
44. SEAL EXPOSED HARDWARE AND CONNECTOR COMPUTER INTERFACE WITH .002 MIN THICK COATING OF FIND NO. 40. COMPUTER ASSY DIMENSION SHALL NOT BE EXCEEDED. CURE AT ROOM TEMP FOR 24 HOURS.

REVISIONS					
REV	DATE	DESCRIPTION	BY	CHKD	APPROVED
A	10-1-68	RELEASED PER TORP 322985	LOAN		
B	10-1-68	REVISED PER TORP 33133			
C	10-1-68	REVISED PER TORP 33133			
D	10-1-68	REVISED PER TORP 33133			
E	10-1-68	REVISED PER TORP 33133			
F	10-1-68	REVISED PER TORP 33133			
G	10-1-68	REVISED PER TORP 33133			
H	10-1-68	REVISED PER TORP 33133			
I	10-1-68	REVISED PER TORP 33133			
J	10-1-68	REVISED PER TORP 33133			

PARTIAL SECTION H-H
 FOR -011 ONLY

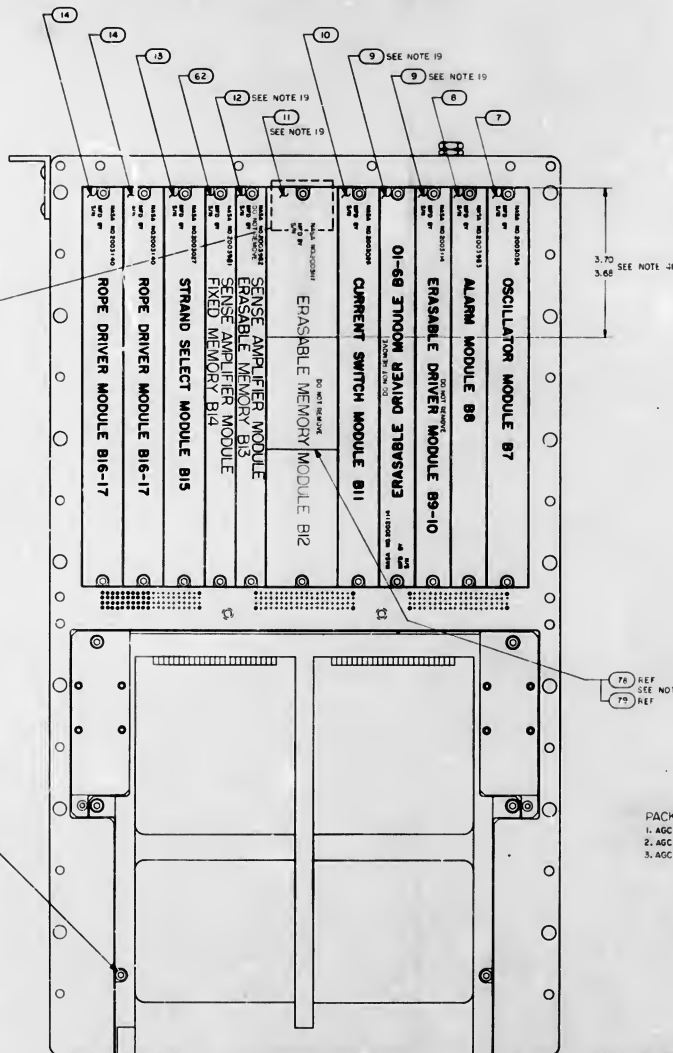
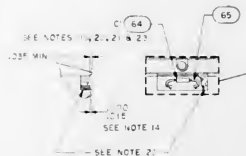
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS		PART OF IDENTIFICATION NO. 80230 J		NOMENCLATURE OR DESCRIPTION COMPUTER ASSEMBLY		PART NO. 80230 J	
DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]		DATE: 10/1/68 TIME: 11:00		DRAWING NO. 80230 J		SHEET 2 OF 2	



NOTE APPLICATION	
DASH NO.	NOTES APPLICABLE
-011	1 THRU 35, 37, 43, 44 & 45
-021	1 THRU 35, 37, 43, 44 & 45
-031	1 THRU 34, 36 & 39 THRU 45
-041	1 THRU 34, 37, 38, 39 THRU 45

[illegible][illegible]

C1		
PART NO.	VALUE	UNIT
1006777-1	10	
1006777-15	150	
1006777-18	330	
1006777-20	470	
1006777-22	480	
1006777-23	820	
1006777-24	0	
1006777-25	22	
1006777-27	270	



PACKAGING REFERENCE DRAWINGS

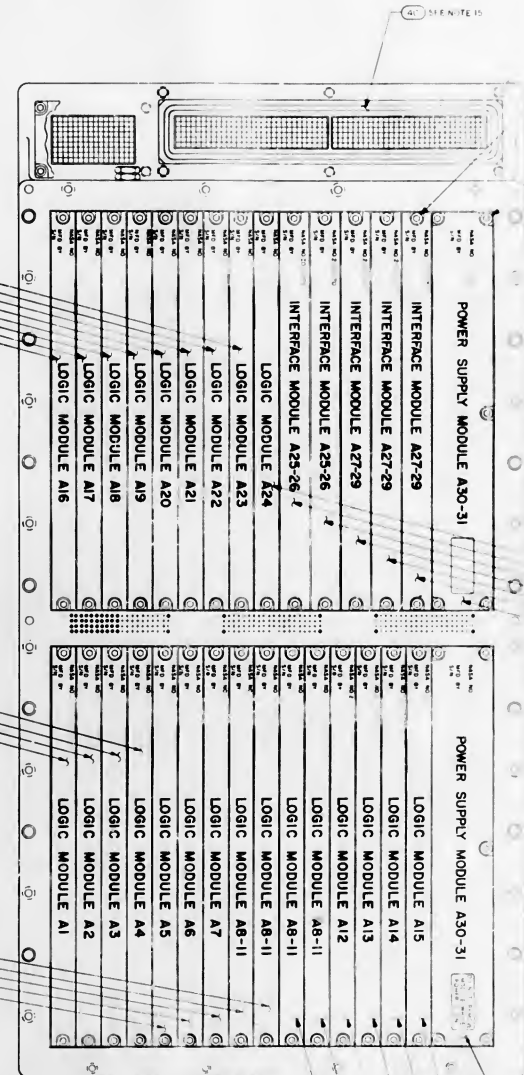
1. AGC CONNECTOR COVER KIT 204399
2. AGC HANDLING FIXTURE ASSY 204262
3. AGC SHIPPING CONTAINER 1006421

NOTES: (CONT.)

33. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN 0.002 OF SURFACE B USING FIND NO. 72; NOT TO INCLUDE .004 REF DIMENSION OF FIND NO. 72
34. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN 0.002 OF SURFACE B USING FIND NO. 71
35. USE TRAY A WIRE ASSY PART NO. 2003092 - C81 OR PART NO. 2003092 - C81
36. FOR -031 CONFIGURATION ONLY USE LOGIC MODULE WITH TRAY A PART NOS. 2003888-011 THRU 2003888-291; SEE CHART 'A'

2003993

K



SECTION C-C

SECTION D-D

SECTION G-G

SHEET 1

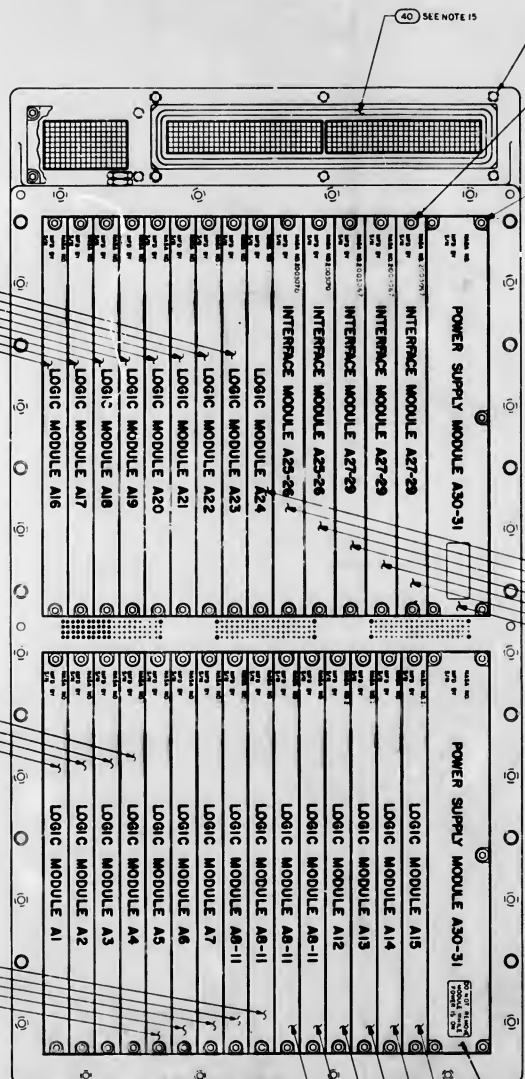
SCALE 2/1

NOTES: (CONT.)

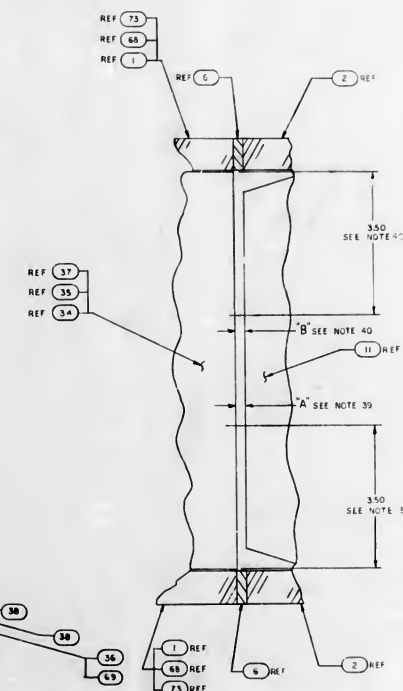
33. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN .002 OF SURFACE B USING
FIND NO. 72, NOT TO INCLUDE .004 REF
DIMENSION OF FIND NO. 72
34. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN .002 OF SURFACE B
USING FIND NO. 72
35. USE TRAY A WIRE ASSY PART NO. 2003092 - OAI OR PART
NO. 2003092 - O61
36. FOR CBI CONFIGURATION, ONLY USE LOGIC MODULE, 41THRU 42,
PART NOS. 2003888-01 THRU 2003888-2 NLS, SEE CHART 'A'

37. FOR C0C21-041 CONFIGURATION ONLY USE LOGIC MODULE A1 THRU A24, FIND NOS. 15 THRU 35, PART NOS. 200312H-01 THRU 200312H-231 AND/OR 200388H-01 THRU 200388H-231. SEE CHART "A".

38. WHEN A COMPUTER IS COMPOSED OF LOGIC MODULES A1 THRU A24, PART NOS. 200388H-01 THRU 200388H-231 AND A TRAY "A" WIRE ASSY 2003092-041 IT SHALL BE DESIGNATED 2003993-031



SECTION C-C

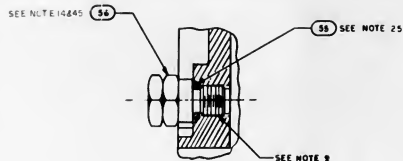


PARTIAL SECTION H-H

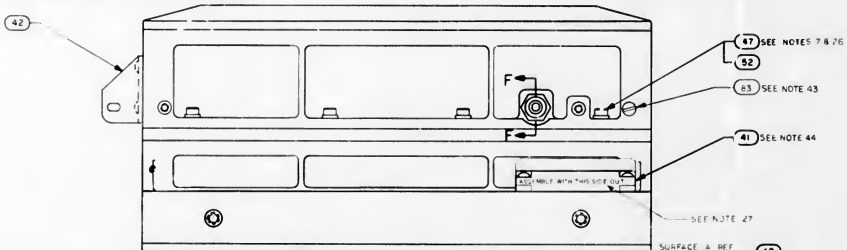
- NOTES CONT'D:
39. "A" DIM TAKEN 3.50 FROM EDGE OF FIND NO.35
B DIM TAKEN 3.50 FROM EDGE OF FIND NO.35
FOR 021034
40. USE FOLLOWING PROCEDURE FOR INSTALLATION OF VIBRATION DAMPING PAD, FIND NO.78 AND SHIM, FIND NO.79
(A) MEASURE DIMENSIONS "A" & "B" OF PARTIAL PAD (N=N)
BOND PARTIAL PAD TO SHIM, FIND NO.79, (SECOND PARTIAL PAD)
(B) PARTIAL PADS MUST BE EQUAL TO THE AVERAGE OF DIMENSIONS "A" & "B"
PLUS .012 INCH. THIS TOTAL DIMENSION MUST BE BOND TO SHIM, FIND NO.79 TO THE REQUIRED THICKNESS
PRIOR TO BONDING TO FIND NO.78
(C) BOND FIND NO.79, AFTER MAKING TO THICKNESS, TO FIND NO.78 USING 1000338
(D) BOND ASSY OF FIND NO.78 TO FIND NO.11 USING 1006338
BOND IN CENTER AREA ON BOTH ENDS, FIND NO.79 TO INTERFERE WITH FIND NO.11
42. WHEN FIND NO.11, 35, 37, 38 & 5 IS REMOVED AND REPLACED REPEAT NOTE 41
43. FIND NO.5 WITHIN 84 TO BE USED AT ALL TIMES; THREADED HOLES ARE NOT IN USE, THIS INCLUDES SHIPPING. ALL SCRL'S SHALL BE TIGHTLY SUFFICIENTLY TO SEAL THREADED HOLE, FIND NO.43 TO BE TIGHTENED 70 TO 85 IN FT LBS. IF THE SCRL'S DO NOT COMPUTER WHEN SHIPPED BUT REQUIRED SHALL BE IDENTIFIED PER NO 00020 & SHIPPED UNASSEMBLED
44. FOR INSTALLATION INTO SPEACRAFT SEAL EXPOSED HARDWARE & CONNECTOR COMPUTER INTERFACE WITH 002.MN THIN COATING OF FIND NO.50 COMPUTER ASSY DIM, SHALL NOT BE EXCEEDED, CURD AT ROOM TEMP FOR 24 HOURS

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PART A SEE NOTES 36, 37			
PART NO. (OR REF.)	PART NO. FOR ORIGINATOR	MODULES	
2003901	001	LOGIC MODULE A1	A1
	021	A2	A2
	031	A3	A3
	041	A4	A4
	051	A5	A5
	061	A6	A6
	071	A7	A7
	081	AB-A11	AB-A11
	091	A8	A8
	111	A13	A13
	121	A14	A14
	131	A15	A15
	141	A16	A16
	151	A17	A17
	161	A18	A18
	171	A19	A19
	181	A20	A20
	191	A21	A21
	211	A22	A22
	221	A23	A23
2003902	231	LOGIC MODULE A24	A24



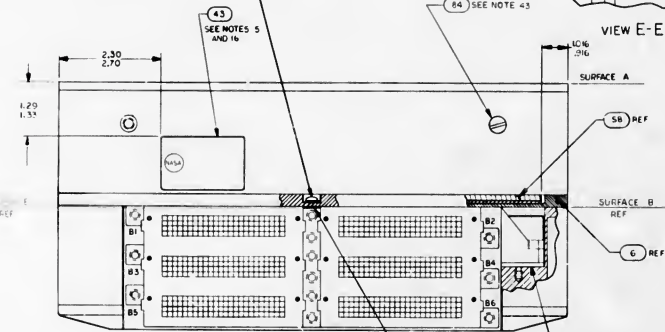
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VIEW B-B



VIEW E-E

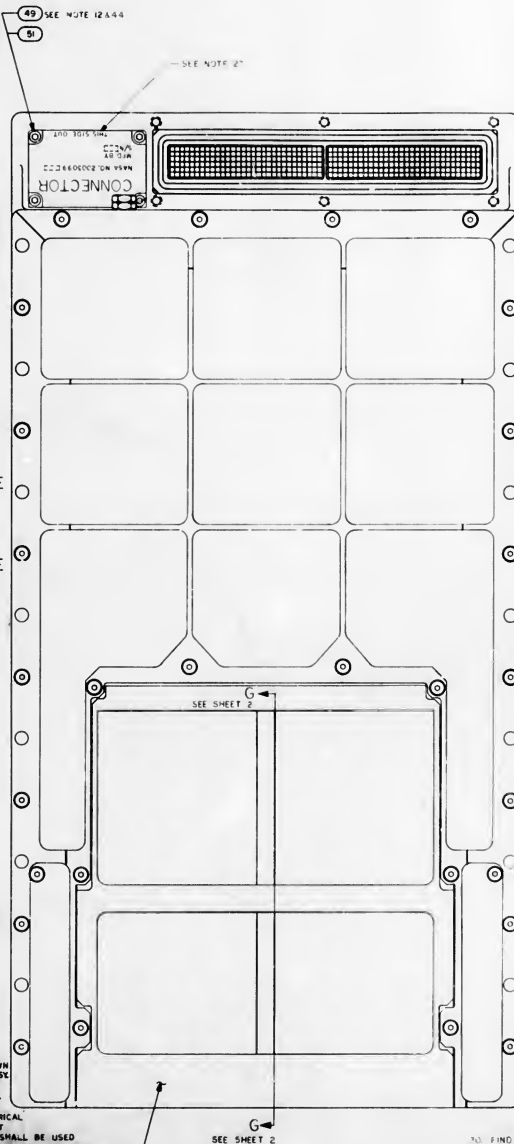


VIEW A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGC COLUPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. ADD SILICONE COMPOUND 1004878 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES.
4. ASSEMBLY FIND NO 53 AND FIND NO 63 TO FIND NO 6 AND FIND NO 6 TO FIND NO 2 PRIOR TO ASSEMBLY OF FIND NO 2 TO FIND NO 1 OR FIND NO 68 OR FIND NO 95.
5. BOND FIND NO 43 TO FIND NO 1 OR FIND NO 6 OR FIND NO 68 PER NDC6219, METHOD 22.
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS.
7. TORQUE FIND NO 4 TO 20/32 INCH POUNDS.
8. FINISH IS REQUIRED TO SATISFY ESD 6400-10-0000.
9. APPLY SEALING COMPOUND MIL-5-22473 GRADE H TO FIND NO 53, FIND NO 56 AND FIND NO 44.
10. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS2006007.
11. TORQUE FOR FIND NO 36 AND FIND NO 69 MOUNTING SCREWS TO BE 12/22 INCH POUNDS.
12. TORQUE FOR FIND NO 46, 49, 50 AND 67 TO BE 18/22 INCH POUNDS.
13. TORQUE FOR FIND NO 53 TO BE 4/6 INCH POUNDS.
14. TORQUE FOR FIND NO 44 AND FIND NO 56 TO BE 137/157 INCH POUNDS.
15. FIND NO 40 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
16. MARKING: MARKED PARTS AND RELATED PARTS NO. APPLICABLE DATA NO., SERIAL NO. AND CONTRACT NO. PER 1004260 AND SERIALIZE PER 10102203.
17. FINISH SURFACE (A) PER 320 HAA 1001-0302-116 THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS OF 300 HAA 1001-0302-116.

18. BOND FIND NO 58 TO FIND NO 6 IN POSITION SHOWN USING 1000358 CURE AT ROOM TEMP 24 HRS PRIOR TO ASSEMBLY.
19. REFERENCED MODULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NOMINAL SELECTION PROCEDURE PER NOTE 10.
20. THE VALUE OF C1 TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART.
21. WHEN THE VALUE OF C1 IS ZERO NO CRIMPING SHALL BE USED.
22. INCAPULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF C1 USING NDC02003 METHOD C OR D USING PRIMER PER SCND02593.
23. WELD PER 10002009.
24. ASSEMBLY HARDWARE WITH SMOOTH FACE OF FIND NO 39 IN CONTACT WITH SMOOTH FACE.
25. HARDWARE HARDWARE 39 TO BE REPLACED AND REPLACED WITH N.W. PARTS EACH TIME THEY ARE DISASSEMBLED.
26. SEAL EXPOSED HARDWARE ASSEMBLY WITH 002 MIN THICK COATING OF FIND NO 40 OVERALL COMPUTER ASSEMBLY DIMENSIONS SHALL NOT BE EXCEEDED CURE AT ROOM TEMP 24 HRS.



SEE SHEET 2

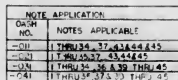
SEE NOTE 29

27. STENCILING SHOWN FOR ORIENTATION ONLY.
28. KEEP ALL MATING THREADS OF SCREWS, TRAY AND MID SPACER INSERTS FREE OF SILICONE COMPOUND.
29. FILL FEMALE INSULATORS OF B41 AND B42 CONNECTIONS USING FIND NO 40 PRIOR TO ASSEMBLY OF FIND NO 5 TO FIND NO 2.

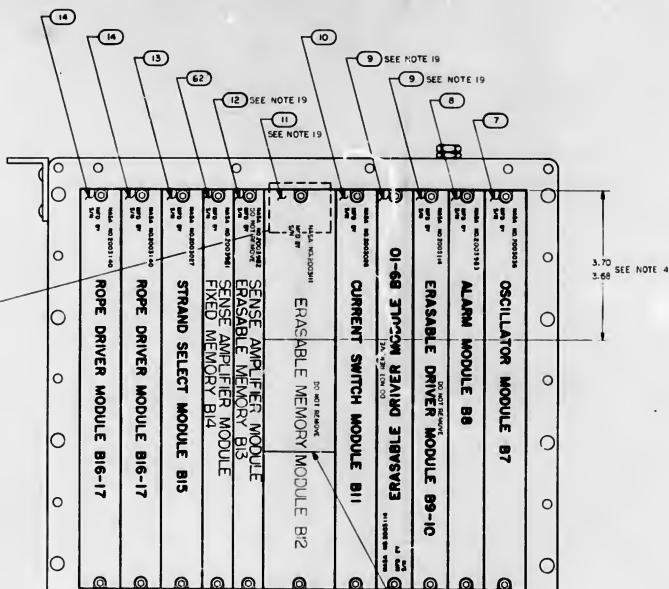
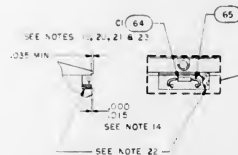
30. FIND NO 12 EXCHANGEABLE MEMORY, UNSEALABLE MODULES.
31. FIND NO 64 EXCHANGEABLE MEMORY, SEALABLE MODULES.
32. BUILD FIND NO 40 MOUNTING EDGES TO FIND NO 4 PER NOTE 11 AND 12 ASSEMBLY OF FIND NO 4.
33. SEE SHEET 2.
34. SEE SHEET 2.
35. SEE SHEET 2.
36. SEE SHEET 2.
37. SEE SHEET 2.
38. SEE SHEET 2.

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CI	PART NO.	VALUE
	1006777-1	0
	1006777-10	150
	1006777-18	330
	1006777-20	670
	1006777-22	880
	1006777-23	820
	1006777-21	0
	1006777-19	220
	1006777-17	270

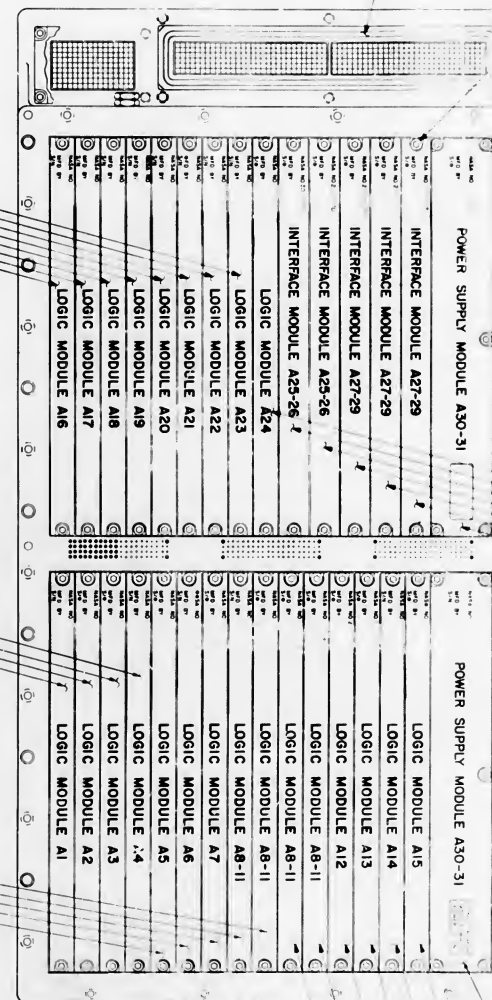


PACKAGING REFERENCE DRAWINGS

1. AGC CONNECTOR COVER KIT 204399
2. AGC HANDLING FIXTURE ASSY 204282
3. AGC SHIPPING CONTAINER 1006421

NOTES (CONT.)

33. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN 0.002 OF SURFACE B USING FIND NO. 72, NOT TO INCLUDE 0.004 REF DIMENSION OF FIND NO. 72
34. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN 0.002 OF SURFACE B USING FIND NO. 71
35. USE TRAY A WIRE ASSY PART NO. 2003092-041 OR PART NO. 2003092-041 OR PART NO. 2003092-041
36. FOR -031 CONFIGURATION ONLY USE LOGIC MODULE A1 THRU A24 PART NOS. 2003888-01 THRU 2003888-24; SEE CHART 'A'

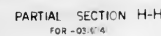


37. FOR -024/-031 CONFIGURATION ONLY USE LOGIC MODULE A1 THRU A24, PART NOS. 15 THRU 15, PART NOS. 2003888-01 THRU 2003888-24; SEE CHART 'A'
38. WHEN A COMPUTER IS COMPILED OF LOGIC MODULE A1 THRU A24, PART NOS. 2003888-01 THRU 2003888-24, PART NOS. 2003888-01 THRU 2003888-24; SEE CHART 'A'

3.70 SEE NOTE 41



- 39 "A" DIM TAKEN 3.5% FROM EDGE OF FIND NO.35
40 "B" DIM TAKEN 3.5% FROM EDGE OF FIND NO.35
41 USE FOLLOWING PROCEDURE FOR IDENTIFICATION OF VIBRATION
42 CAMPING PAD, FIND NO.78 AND SHIM, FIND NO.79
43 (A) MEASURE DIMENSIONS A & B (SEE PARTIAL SECTION H-N)
44 (B) TOTAL DIMENSION OF FIND NO.78 & 79 MUST BE IDENTICAL MATERIAL
45 NOTICED MUST BE EQUAL TO THE AVERAGE OF DIMENSIONS A & B
46 PLUS OR MINUS .0004. THIS TOTAL DIMENSION MUST BE OBTAINED BY
47 MEASURING THE SHIM AND FIND NO.79 TO THE REQUIRED THICKNESS
48 PRIOR TO BONDING TO FIND NO.78
49 (C) BOND FIND NO.79 AFTER MACHINING TO THICKNESS, TO FIND
50 NO.78 USING 1000SILV SHIM, BONDING TO FIND NO.78
51 (D) BOND ASSY OF FIND NO.78 - 79 TO FIND NO.41 USING 1000SILV
52 BOND IN CENTER AREA OF BOTH. ON BOTH ENDS, FIND NO.79 - 10
53 INTERFERENCE WITH FIND NO.41
54 WHEN FIND NO.41,34,35,37,04 & 15 IS REMOVED AND REPLACED
55 REPEAT NOTE 41
56 FIND NO.5 IS TO BE USED AT ALL TIMES THREADED HOLES
57 ARE NOT IN USE. THIS INCLUDES SHIPPING. ALL SCREWS SHALL BE
58 TORQUED SUFFICIENTLY TO SEAL THREADED HOLE. FIND NO.43 IS
59 TO BE TORQUED TO 10 LBS IN ORDER TO BE ASSEMBLED TO COMPUTER
60 WHEN SHIPPED BUT REQUIRED SHALL BE IDENTIFIED PER 000200 &
61 SHIPPED UNASSEMBLED
62 PRIOR TO INSTALLATION INTO SPACECRAFT SEALEXPOSED HARDWARE &
63 CONNECTOR COMPUTER INTERFACE WITH 002 IN MIN. COATING OF FPM
64 FOR PROPER ASSY DOWNSIDE OF SEALEXPOSED HARDWARE. TEMP SCR 24 HOURS
65 PRIOR TO USE OF FIND NO.50S6 SHALL BE 35 IN LB.



NOTES (CONT.)

23. SHIM: AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B USING
FIND NO. 72, NOT TO INCLUDE .004 REF
DIMENSION OF FIND NO. 72.
24. SHIM: AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B
USING FIND NO. 71.
25. USE TRAY A WIRED ASSY PART NO. 2003092 - 041 OR PART
NO. 2003092 - 061 OR PART NO. 2003092 - 071.
26. FOR C-31 CONFIGURATION, ONLY USE LOGIC MODULE A1THRU A24
PART NOS. 2003888-01 THRU 2003888-23. SEE CHART 'A'

37. FOR 40218041 CONFIGURATION ONLY USE LOGIC MODULE -A1 THRU
A24, FIND NOS. 153R35, PART NOS. 2003127-01 THRU 2003127-
231 AND/OR 2003888-01 THRU 2003888-271, SEE CHART "A".

38. WHEN A COMPUTER IS COMPRISED OF LOGIC MODULES -A1 THRU A24,
PART NOS. 2003888-01 THRU 2003888-271 AND A TRAY "A" WIRE
2003922-041 OR 2003992-071 IT SHALL BE DESIGNATED
2003993-031

SECTION C-C

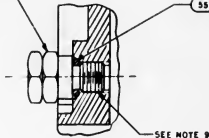
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CHART A SEE NOTES 36 & 37

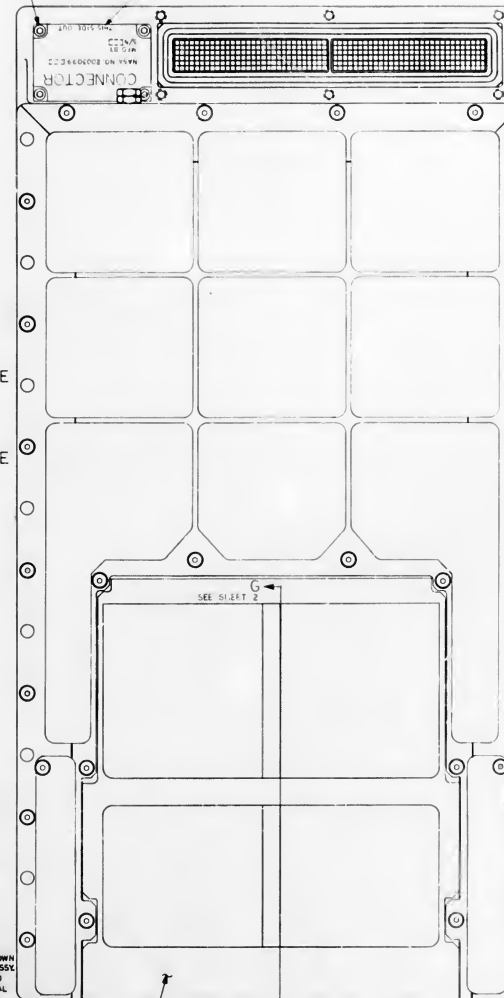
PHANTOM LINE	MODULE	MODULE
200301	-011	2003088
-021	-021	LOGIC MODULE A1
-031	-031	A2
-041	-041	A3
-051	-051	A4
-061	-061	A5
-071	-071	A6
-081	-081	A7
-091	-091	AB-A11
-101	-101	A12
-111	-111	A13
-121	-121	A14
-131	-131	A15
-141	-141	A6
-151	-151	A17
-161	-161	A18
-171	-171	A19
-181	-181	A20
-191	-191	A21
-201	-201	A22
-211	-211	A23
-221	-221	LOGIC MODULE A24
-231	-231	LOGIC MODULE A25

SEE NOTE 14 & 45



PARTIAL SECTION F F
SCALE: 2/1

SEE NOTE 12 & 44



SEE NOTE 10 & 15 & 16

SEE NOTE 4

SEE NOTE 29

SEE NOTES 12, 24, & 5 & 6

SEE NOTE 7 & 26

SEE NOTE 12, 24, & 5 & 6

VIEW B-B

VIEW E-E

VIEW A-A

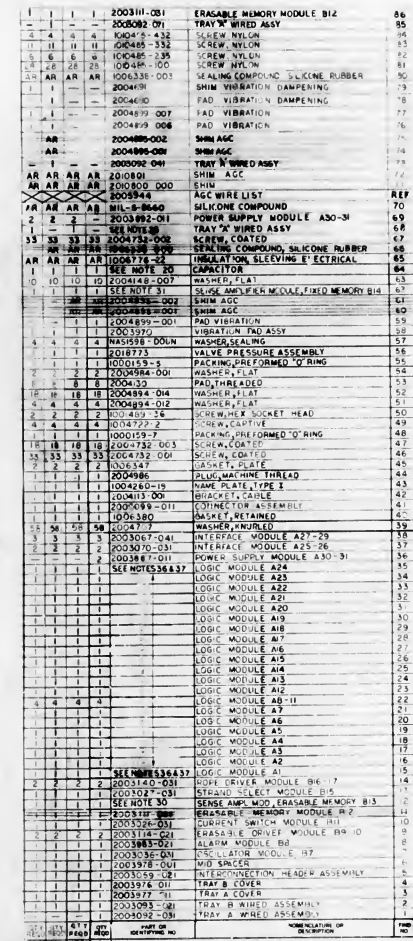
NOTES:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70247.
- PHANTOM LINES DENOTE AGC COLDPLATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
- ADD SILICONE COMPOUND 1004878 TO MODULE MATING METAL SURFACES AND TRAY MATING SURFACES.
- ASSEMBLE FIND NO. 53 AND FIND NO. 63 TO FIND NO. 6 AND FIND NO. 6 TO FIND NO. 2 TO FIND NO. 1 OR FIND NO. 68 OR FIND NO. 85.
- BOND FIND NO. 43 TO FIND NO. 1 OR FIND NO. 68 OR FIND NO. 65 PER FIND NO. 29, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

- BOND FIND NO. 58 TO FIND NO. 6 IN POSITION SHOWN USING 1006338 CLR2 AT ROOM TEMP 24 HRS PRIOR TO ASSY.
- REFERENCED JOULES MUST NOT BE REPLACED OR INTERCHANGED WITHOUT REPEATING NORMAL SELECTION PROCEDURE PER NOTE 10.
- THE VALUE OF C1 IS TO BE DETERMINED AT ELECTRICAL TEST AND SELECTED FROM APPROPRIATE CHART.
- WHEN THE VALUE OF C1 IS ZERO NO COMPONENT SHALL BE USED.
- FINCAPSULATE AREA SHOWN AFTER SELECTION AND INSTALLATION OF C1 USING 10002005 METHOD C OF D USING PHASE PER SC0012513.
- WELD PER 10002005.
- ASSEMBLE HANDLINE WITH SMOOTH FACE OF FIND NO. 39 IN CONTACT WITH SCREW HEAD.
- FIND NO. 38, 48, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

- STENCILING SHOWN FOR ORIENTATION ONLY.
- KEEP ALL MATING THREADS OF SCREWS, TRAY AND MOUNTING INSERTS FREE OF SILICONE COMPOUND.
- USE 10002005 METHOD C OF D USING PHASE PER SC0012513.
- USE 10002005 METHOD C OF D USING PHASE PER SC0012513.

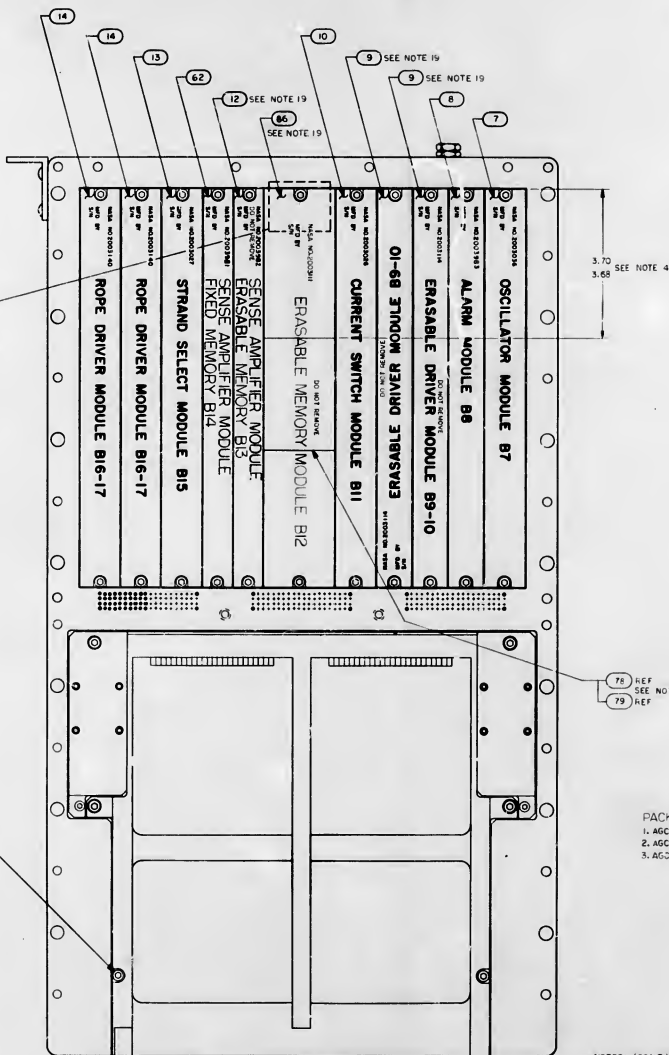
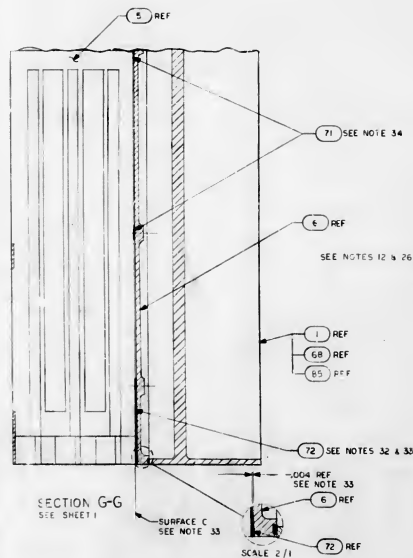
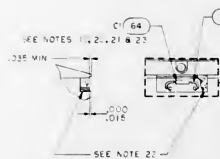
2003 93



NOTE APPLICATION	
DASH NO.	NOTES APPLICABLE
-011	1 THRU 34, 37, 43 & 44, 45 & 46
-021	1 THRU 35 & 37, 43, 44 & 45 & 46
-031	1 THRU 34, 36 & 39 THRU 46
-041	1 THRU 35, 37 & 39 THRU 46

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CONCRETE WALLS AND IN PL SECTION WALLS ARE IN CHIPS TOLERANCES OF FRACTIONS DECIMALS AND IN DO NOT SCALE THIS DRAWING MATERIAL		M I T INSTRUMENTATION LAB 1000 UNIVERSITY DRIVE CAMBRIDGE, MASS 02139		MANNED SPACEPORT CENTER HOUSTON TEXAS	
DRAWN BY CHECKED APPROVED APPROVED		COMPUTER ASSEMBLY		DRAWING NO 2003993	
APPROVED BY APPROVED DATE		CODE REV NO 80230 J		SHEET 1 OF 1	
NEXT AID USED ON APPLICATION					

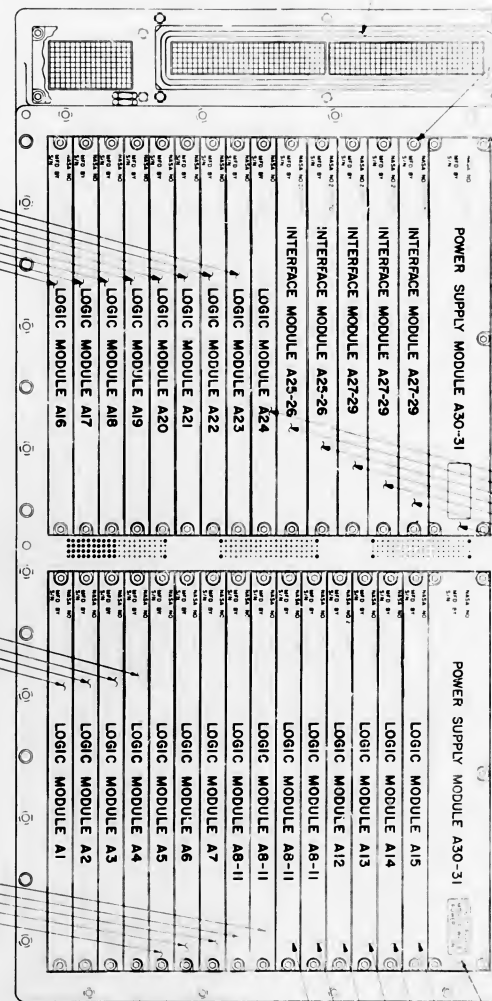
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PART NO.	VALUE
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-15	15C
-18	330
-20	470
-22	680
1006777-23	820
SEE NOTE 21	0
1006777-6	220
1006777-19	270



PACKAGING REFERENCE DRAWINGS
 1. AGC CONNECTOR COVER KIT 204399
 2. AGC HANDLING FIXTURE ASSY 204282
 3. AGC SHIPPING CONTAINER 1006421

NOTES: (CONT.)

33. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN .002 OF SURFACE B USING FIND NO. 72, NOT TO INCLUDE .004 REF DIMENSION OF FIND NO. 72
34. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN .002 OF SURFACE B USING FIND NO. 71
35. USE TRAY A WIRE ASSY PART NO. 2003092-041 OR PART NO. 2003092-061 OR PART NO. 2003092-071
36. FOR -031 CONFIGURATION ONLY USE LOGIC MODULE #1 THRU #24 PART NOS. 2003888-01 THRU 2003888-24/SEE CHART A

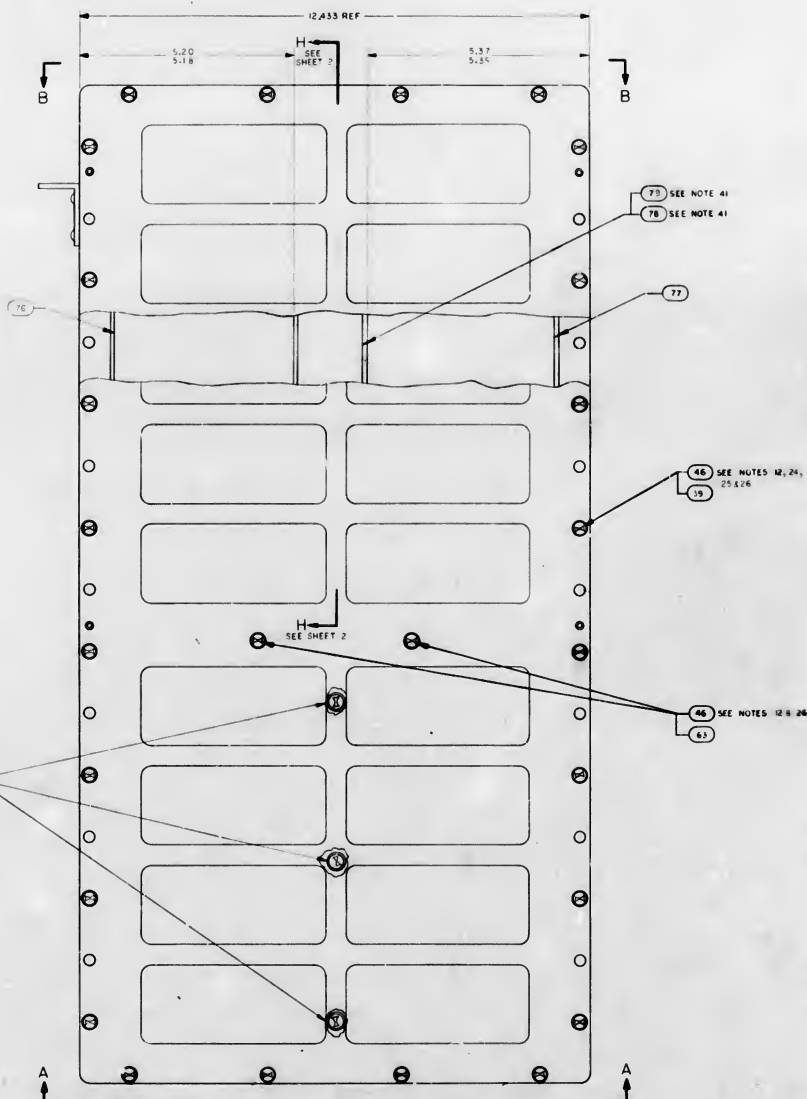


SECTION

37. FOR -031 CONFIGURATION ONLY USE LOGIC MODULE #1 THRU #24 PART NOS. 2003888-01 THRU 2003888-24/SEE CHART A
38. WHEN A COMPUTER IS COMPOSED OF LOGIC MODULE #1 THRU #24 PART NOS. 2003888-01 THRU 2003888-24/SEE CHART A
39. USE TRAY A WIRE ASSY PART NO. 2003092-041 OR PART NO. 2003092-061 OR PART NO. 2003092-071 IT SHALL BE IDENTIFIED BY PART NO. 2003888-01 THRU 2003888-24/SEE CHART A

2003993

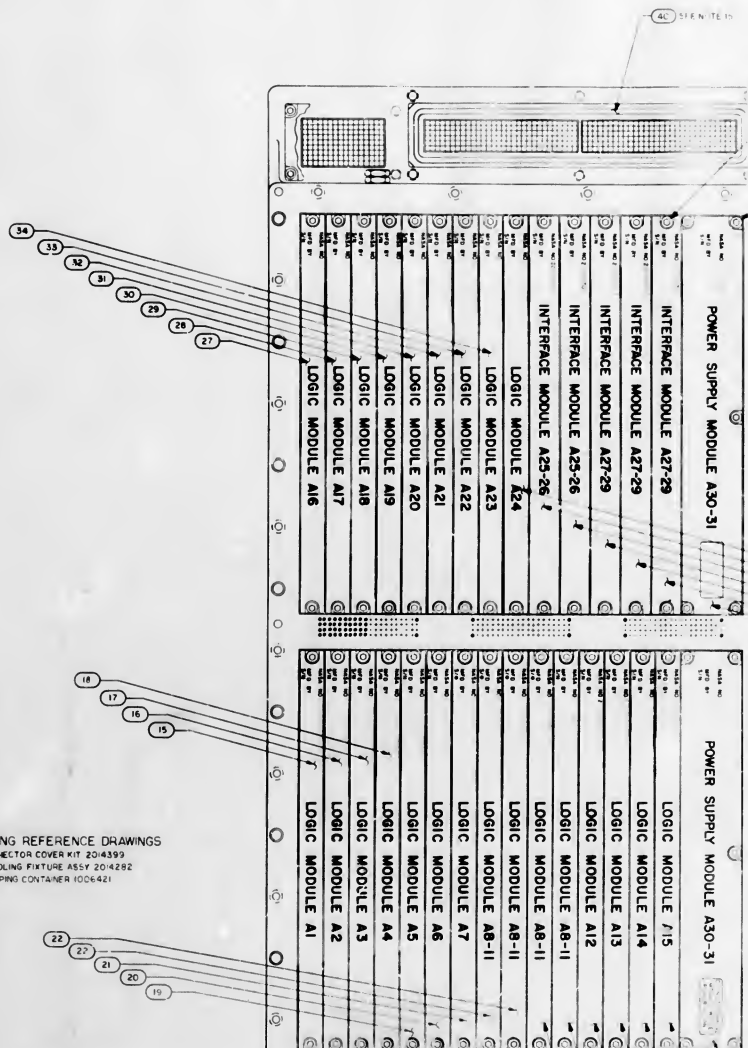
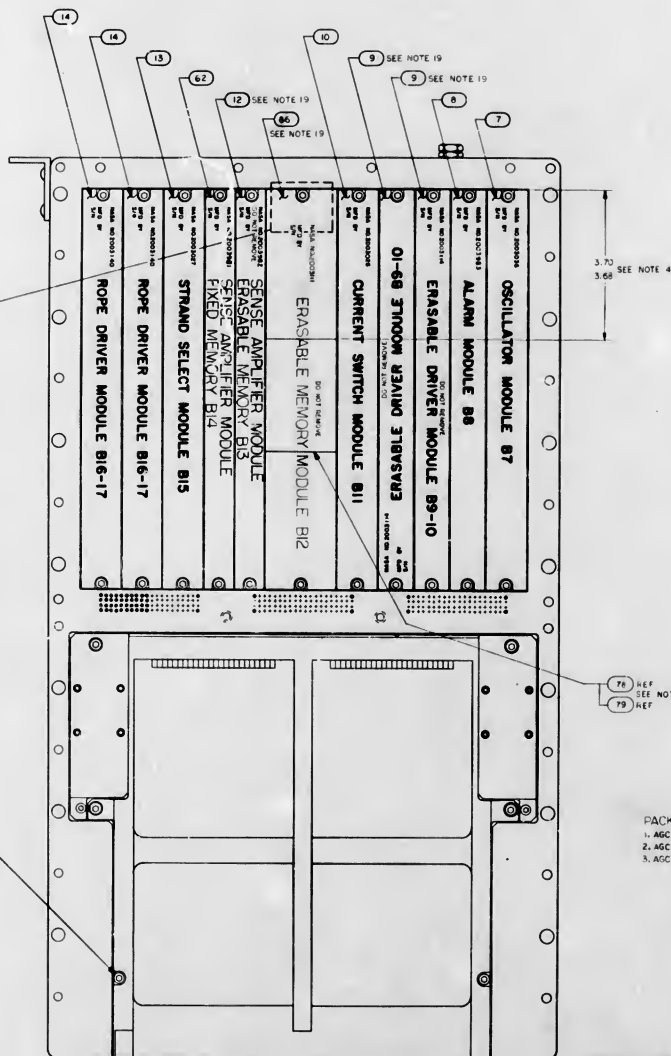
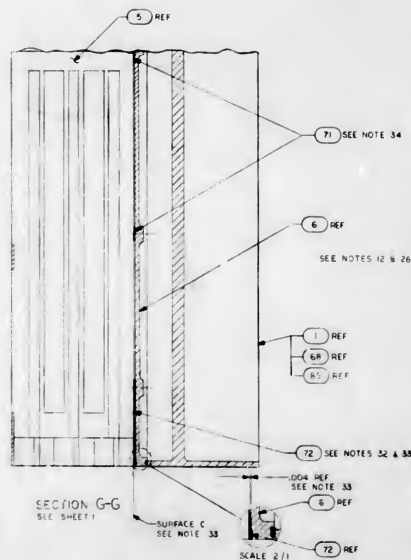
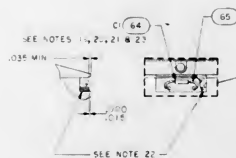
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1	1	1	1004A95	435	SCREEN NYLON		272
1	1	1	1004A95	435	SCREEN NYLON		273
1	1	1	1004A95	435	SCREEN NYLON		274
1	1	1	1004A95	435	SCREEN NYLON		275
1	1	1	1004A95	435	SCREEN NYLON		276
1	1	1	1004A95	435	SCREEN NYLON		277
1	1	1	1004A95	435	SCREEN NYLON		278
1	1	1	1004A95	435	SCREEN NYLON		279
1	1	1	1004A95	435	SCREEN NYLON		280
1	1	1	1004A95	435	SCREEN NYLON	</	

[illegible]

CI	
PART NO.	VALUE UUF
1006777-1	0
-15	150
-18	330
-20	470
-22	680
1006777-23	820
SEE NOTE 21	0
1006777-	220
1006777-17	270



PACKAGING REFERENCE DRAWINGS

1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

NOTES: (CONT.)

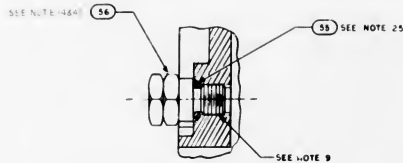
33. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN .002 OF SURFACE B USING
FIND NO. 72, NOT TO INCLUDE .004 REF
DIMENSION OF FIND NO. 72
34. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN .002 OF SURFACE B
USING FIND NO. 72
35. USE TRAY A W/PEE, ASSY PART NO. 2003092 - 041 OR PART
NO. 2003092-080 OR PART NO. 2003092-071
36. FOR -031 CONFIGURATION ONLY USE LOGIC MODULE A1THRU A24
PART NO. 2003888-01 THRU 2003888-23, SEE CHART A

37. FOR MONITOR CONFIGURATION ONLY USE LOGIC MODULES AT THREE-
234, PIN NOS. 15 THRU 35, PART NOS. 2C03022-01 THRU 2C03038-
21 AND FOR 2C03038-01 THRU 2C03038-21, USER CHART A
38. WHEN A COMPUTER IS COMPOSED OF LOGIC MODULES AT THREE-234,
PART NOS. 2C03038-01 THRU 2C03038-21 AND A TIA-1, WHEN
ASSY 2C03039-041 OR 2C03039-071 IT SHALL BE DESIGNATED
2C03039-081

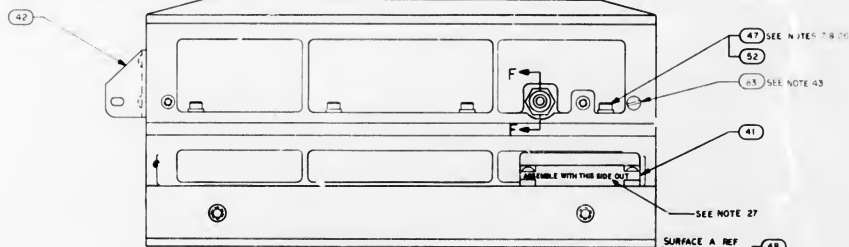
[illegible]

CHART A SEE NOTES 36 & 37

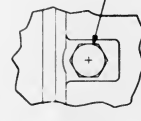
PART NO FOR OR ORDA	MODULES
2003821	011 LOGIC MODULE A1
001	A2
002	A3
003	A4
004	A5
005	A6
006	A7
007	AB-A11
008	A9
009	A10
010	A11
011	A12
012	A13
013	A14
014	A15
015	A16
016	A17
017	A18
018	A19
019	A20
020	A21
021	A22
022	A23
2003821	251 LOGIC MODULE A24



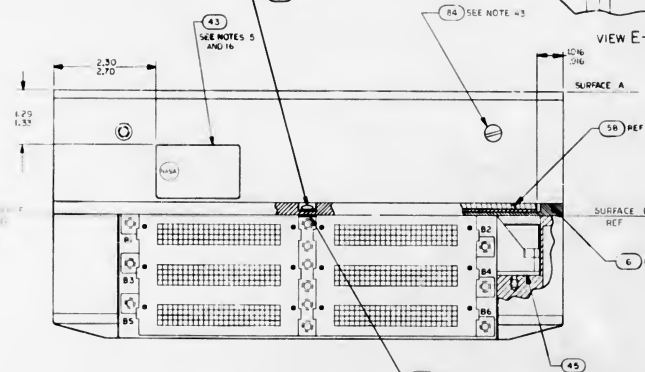
PARTIAL SECTION F F
SCALE: 2/1



VIEW B-B



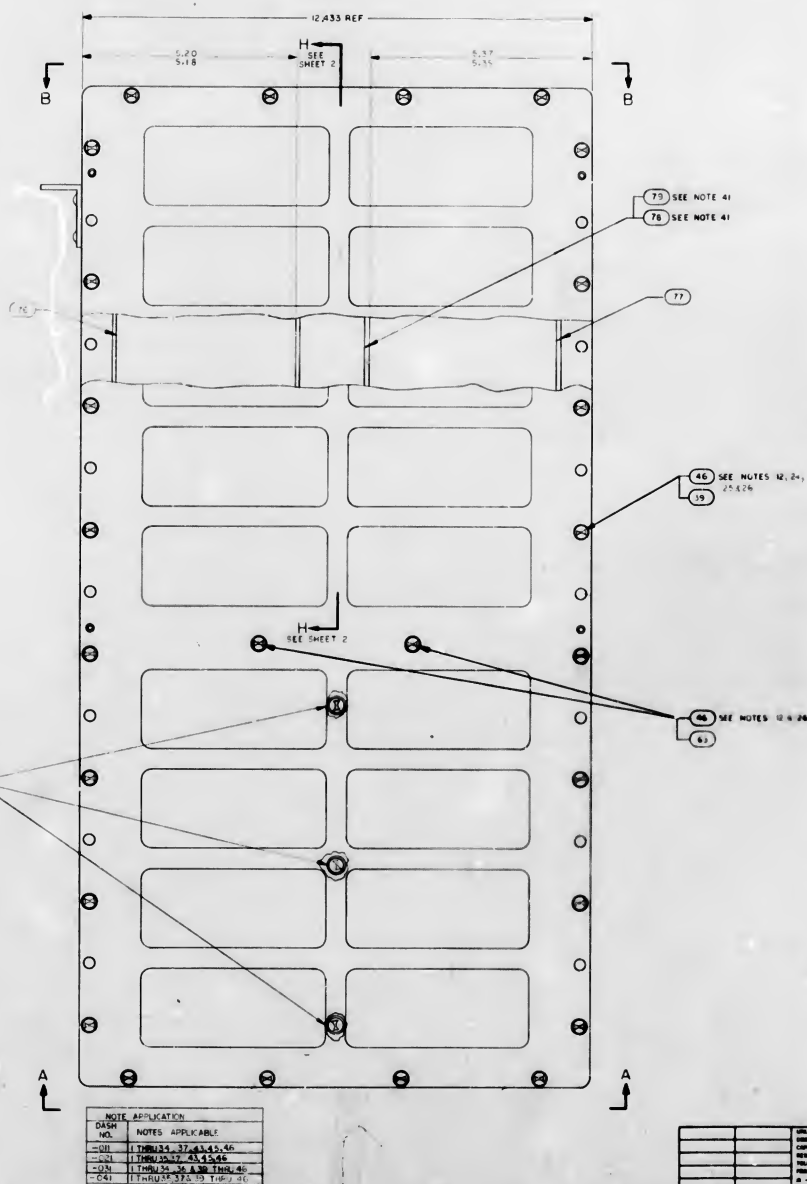
VIEW E-E



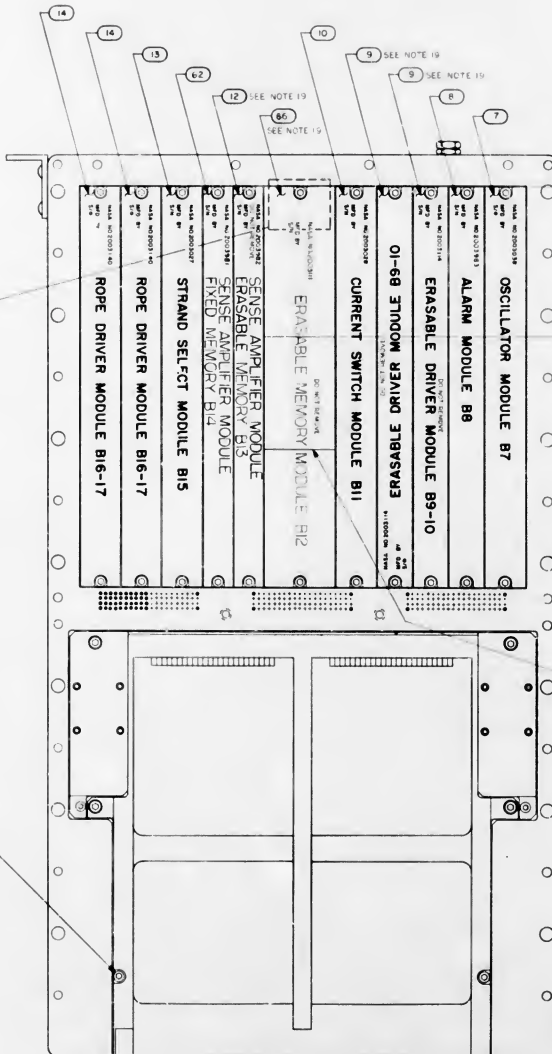
VIEW A-A

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PHANTOM LINES DENOTE AGE, COLOR, DATE AND HANDLING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC.
3. ADD SILICONE COMPOUND 1006479 TO MODULE MOUNTING SURFACES AND TRAY MOUNTING SURFACES
4. ASSEMBLE FIND NO 53 AND FIND NO 63 TO FIND NO 6 AND FIND NO 6 TO FIND NO 2 PRIOR TO ASSEMBLY OF FIND NO 1 OR FIND NO 68 OR FIND NO 69
5. BOND FIND NO 43 TO FIND NO 1 OR FIND NO 6 OR FIND NO 68 PER NDC0029/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084/1085/1086/1087/1088/1089/1090/1091/1092/1093/1094/1095/1096/1097/1098/1099/1100/1101/1102/1103/1104/1105/1106/1107/1108/1109/1110/1111/1112/1113/1114/1115/1116/1117/1118/1119/1120/1121/1122/1123/1124/1125/1126/1127/1128/1129/1130/1131/1132/1133/1134/1135/1136/1137/1138/1139/1140/1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/1199/1200/1201/1202/1203/1204/1205/1206/1207/1208/1209/1210/1211/1212/1213/1214/1215/1216/1217/1218/1219/1220/1221/1222/1223/12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100	100



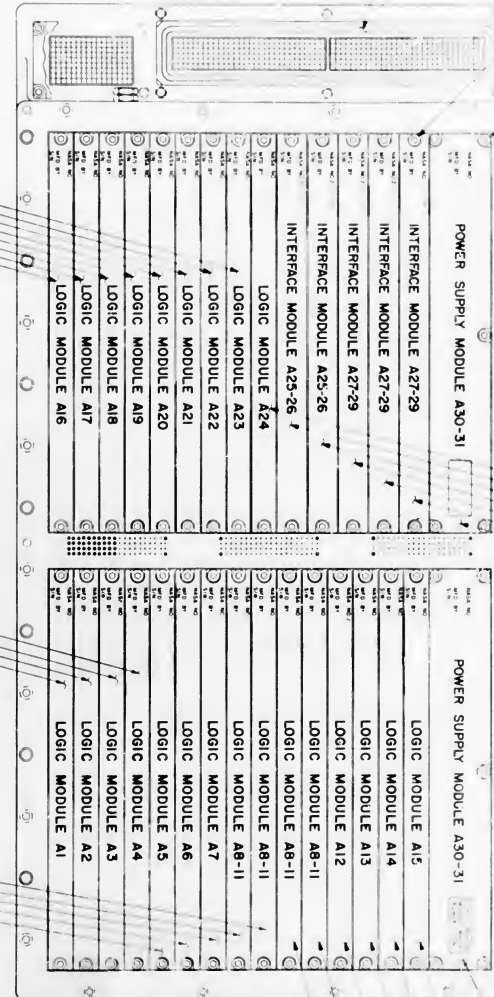
3.71 SEE NOTE 41
3.68

PACKAGING REFERENCE DRAWINGS

1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

NOTES: (CONT.)

35. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN .002 OF SURFACE B USING FIND NO. 72, NOT TO INCLUDE .004 REF DIMENSION OF FIND NO. 72.
34. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN .002 OF SURFACE B USING FIND NO. 71.
35. USE TRAY A WIRE ASSY PART NO. 2003092-041 OR PART NO. 2003092-061 OR PART NO. 2003092-071.
36. TOP CHS CONFIGURATION ONLY USE LOGIC MODULE KIT 1004124 PART NOS. 2003888-011 THRU 2003888-23, SEE CHART A.



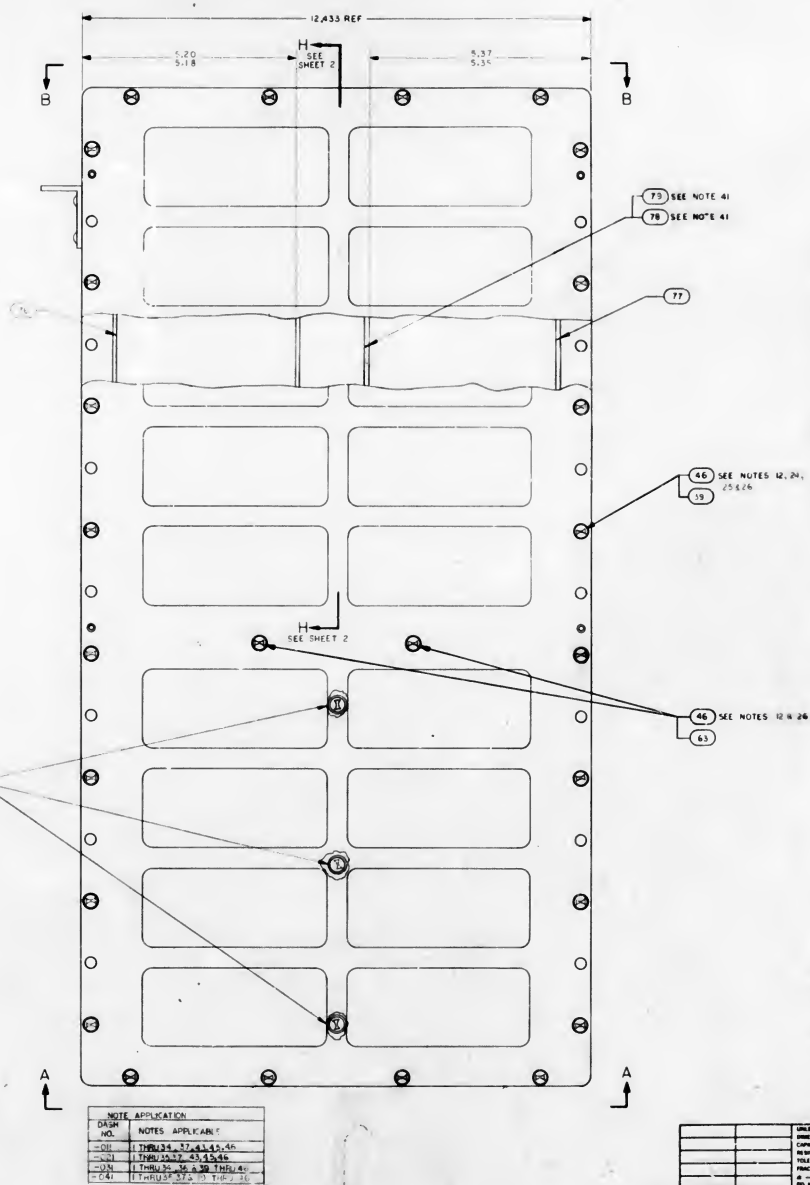
SECTION

37. FINISH THE ALUMINUM SURFACE AND SHIM TO WITHIN .002 OF SURFACE B USING FIND NO. 72, NOT TO INCLUDE .004 REF DIMENSION OF FIND NO. 72.
38. WHEN A COMPUTER IS COMPOSED OF LOGIC MODULES AT THIS LOCATION, PART NOS. 2003888-011 THRU 2003888-23, A TRAY A WIRE ASSY 2003092-041 OR 2003092-061 OR 2003092-071 SHALL BE DISMANTLED (SEE 1994-C8).

1. <input type="checkbox"/> YES <input type="checkbox"/> NO 2. <input type="checkbox"/> DEFINITIVE NO		3. <input type="checkbox"/> DATE OF RECEIPT 4. <input type="checkbox"/> DESCRIPTION		5. <input type="checkbox"/> FILE NO.
6. <input type="checkbox"/> DATE OF RECEIPT 7. <input type="checkbox"/> DESCRIPTION		8. <input type="checkbox"/> DATE OF RECEIPT 9. <input type="checkbox"/> DESCRIPTION		10. <input type="checkbox"/> FILE NO.
11. <input type="checkbox"/> DATE OF RECEIPT 12. <input type="checkbox"/> DESCRIPTION		13. <input type="checkbox"/> DATE OF RECEIPT 14. <input type="checkbox"/> DESCRIPTION		15. <input type="checkbox"/> FILE NO.
16. <input type="checkbox"/> DATE OF RECEIPT 17. <input type="checkbox"/> DESCRIPTION		18. <input type="checkbox"/> DATE OF RECEIPT 19. <input type="checkbox"/> DESCRIPTION		20. <input type="checkbox"/> FILE NO.
21. <input type="checkbox"/> DATE OF RECEIPT 22. <input type="checkbox"/> DESCRIPTION		23. <input type="checkbox"/> DATE OF RECEIPT 24. <input type="checkbox"/> DESCRIPTION		25. <input type="checkbox"/> FILE NO.
26. <input type="checkbox"/> DATE OF RECEIPT 27. <input type="checkbox"/> DESCRIPTION		28. <input type="checkbox"/> DATE OF RECEIPT 29. <input type="checkbox"/> DESCRIPTION		30. <input type="checkbox"/> FILE NO.
31. <input type="checkbox"/> DATE OF RECEIPT 32. <input type="checkbox"/> DESCRIPTION		33. <input type="checkbox"/> DATE OF RECEIPT 34. <input type="checkbox"/> DESCRIPTION		35. <input type="checkbox"/> FILE NO.
36. <input type="checkbox"/> DATE OF RECEIPT 37. <input type="checkbox"/> DESCRIPTION		38. <input type="checkbox"/> DATE OF RECEIPT 39. <input type="checkbox"/> DESCRIPTION		40. <input type="checkbox"/> FILE NO.
41. <input type="checkbox"/> DATE OF RECEIPT 42. <input type="checkbox"/> DESCRIPTION		43. <input type="checkbox"/> DATE OF RECEIPT 44. <input type="checkbox"/> DESCRIPTION		45. <input type="checkbox"/> FILE NO.
46. <input type="checkbox"/> DATE OF RECEIPT 47. <input type="checkbox"/> DESCRIPTION		48. <input type="checkbox"/> DATE OF RECEIPT 49. <input type="checkbox"/> DESCRIPTION		50. <input type="checkbox"/> FILE NO.
51. <input type="checkbox"/> DATE OF RECEIPT 52. <input type="checkbox"/> DESCRIPTION		53. <input type="checkbox"/> DATE OF RECEIPT 54. <input type="checkbox"/> DESCRIPTION		55. <input type="checkbox"/> FILE NO.
56. <input type="checkbox"/> DATE OF RECEIPT 57. <input type="checkbox"/> DESCRIPTION		58. <input type="checkbox"/> DATE OF RECEIPT 59. <input type="checkbox"/> DESCRIPTION		60. <input type="checkbox"/> FILE NO.
61. <input type="checkbox"/> DATE OF RECEIPT 62. <input type="checkbox"/> DESCRIPTION		63. <input type="checkbox"/> DATE OF RECEIPT 64. <input type="checkbox"/> DESCRIPTION		65. <input type="checkbox"/> FILE NO.
66. <input type="checkbox"/> DATE OF RECEIPT 67. <input type="checkbox"/> DESCRIPTION		68. <input type="checkbox"/> DATE OF RECEIPT 69. <input type="checkbox"/> DESCRIPTION		70. <input type="checkbox"/> FILE NO.
71. <input type="checkbox"/> DATE OF RECEIPT 72. <input type="checkbox"/> DESCRIPTION		73. <input type="checkbox"/> DATE OF RECEIPT 74. <input type="checkbox"/> DESCRIPTION		75. <input type="checkbox"/> FILE NO.
76. <input type="checkbox"/> DATE OF RECEIPT 77. <input type="checkbox"/> DESCRIPTION		78. <input type="checkbox"/> DATE OF RECEIPT 79. <input type="checkbox"/> DESCRIPTION		80. <input type="checkbox"/> FILE NO.
81. <input type="checkbox"/> DATE OF RECEIPT 82. <input type="checkbox"/> DESCRIPTION		83. <input type="checkbox"/> DATE OF RECEIPT 84. <input type="checkbox"/> DESCRIPTION		85. <input type="checkbox"/> FILE NO.
86. <input type="checkbox"/> DATE OF RECEIPT 87. <input type="checkbox"/> DESCRIPTION		88. <input type="checkbox"/> DATE OF RECEIPT 89. <input type="checkbox"/> DESCRIPTION		90. <input type="checkbox"/> FILE NO.
91. <input type="checkbox"/> DATE OF RECEIPT 92. <input type="checkbox"/> DESCRIPTION		93. <input type="checkbox"/> DATE OF RECEIPT 94. <input type="checkbox"/> DESCRIPTION		95. <input type="checkbox"/> FILE NO.
96. <input type="checkbox"/> DATE OF RECEIPT 97. <input type="checkbox"/> DESCRIPTION		98. <input type="checkbox"/> DATE OF RECEIPT 99. <input type="checkbox"/> DESCRIPTION		100. <input type="checkbox"/> FILE NO.
101. <input type="checkbox"/> DATE OF RECEIPT 102. <input type="checkbox"/> DESCRIPTION		103. <input type="checkbox"/> DATE OF RECEIPT 104. <input type="checkbox"/> DESCRIPTION		105. <input type="checkbox"/> FILE NO.
106. <input type="checkbox"/> DATE OF RECEIPT 107. <input type="checkbox"/> DESCRIPTION		108. <input type="checkbox"/> DATE OF RECEIPT 109. <input type="checkbox"/> DESCRIPTION		110. <input type="checkbox"/> FILE NO.
111. <input type="checkbox"/> DATE OF RECEIPT 112. <input type="checkbox"/> DESCRIPTION		113. <input type="checkbox"/> DATE OF RECEIPT 114. <input type="checkbox"/> DESCRIPTION		115. <input type="checkbox"/> FILE NO.
116. <input type="checkbox"/> DATE OF RECEIPT 117. <input type="checkbox"/> DESCRIPTION		118. <input type="checkbox"/> DATE OF RECEIPT 119. <input type="checkbox"/> DESCRIPTION		120. <input type="checkbox"/> FILE NO.
121. <input type="checkbox"/> DATE OF RECEIPT 122. <input type="checkbox"/> DESCRIPTION		123. <input type="checkbox"/> DATE OF RECEIPT 124. <input type="checkbox"/> DESCRIPTION		125. <input type="checkbox"/> FILE NO.
126. <input type="checkbox"/> DATE OF RECEIPT 127. <input type="checkbox"/> DESCRIPTION		128. <input type="checkbox"/> DATE OF RECEIPT 129. <input type="checkbox"/> DESCRIPTION		130. <input type="checkbox"/> FILE NO.
131. <input type="checkbox"/> DATE OF RECEIPT 132. <input type="checkbox"/> DESCRIPTION		133. <input type="checkbox"/> DATE OF RECEIPT 134. <input type="checkbox"/> DESCRIPTION		135. <input type="checkbox"/> FILE NO.
136. <input type="checkbox"/> DATE OF RECEIPT 137. <input type="checkbox"/> DESCRIPTION		138. <input type="checkbox"/> DATE OF RECEIPT 139. <input type="checkbox"/> DESCRIPTION		140. <input type="checkbox"/> FILE NO.
141. <input type="checkbox"/> DATE OF RECEIPT 142. <input type="checkbox"/> DESCRIPTION		143. <input type="checkbox"/> DATE OF RECEIPT 144. <input type="checkbox"/> DESCRIPTION		145.

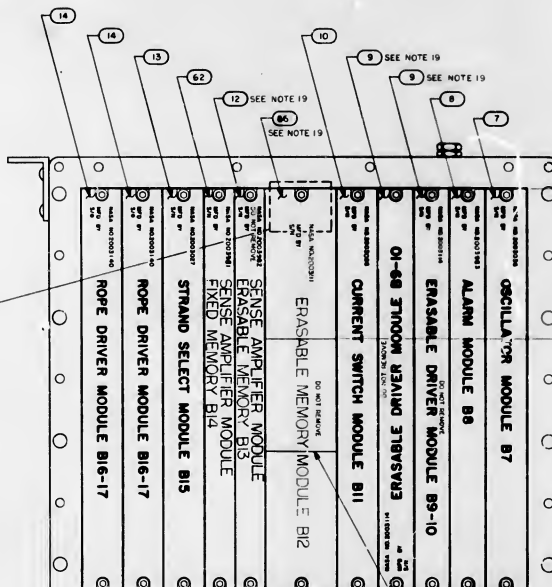
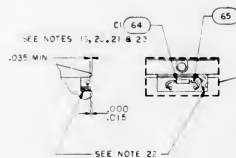
CHART A SEE NOTES 30 & 37

PART NO. FOR MODULE	MODULE	MODULE
2003921	011	2003940
021	021	031
041	041	051
061	061	071
081	081	091
101	101	111
121	121	131
141	141	151
161	161	171
181	181	191
201	201	211
221	221	231
241	241	251
261	261	271
281	281	291
301	301	311
321	321	331
341	341	351
361	361	371
381	381	391
401	401	411
421	421	431
441	441	451
461	461	471
481	481	491
501	501	511
521	521	531
541	541	551
561	561	571
581	581	591
601	601	611
621	621	631
641	641	651
661	661	671
681	681	691
701	701	711
721	721	731
741	741	751
761	761	771
781	781	791
801	801	811
821	821	831
841	841	851
861	861	871
881	881	891
901	901	911
921	921	931
941	941	951
961	961	971
981	981	991
1001	1001	1011
1021	1021	1031
1041	1041	1051
1061	1061	1071
1081	1081	1091
1101	1101	1111
1121	1121	1131
1141	1141	1151
1161	1161	1171
1181	1181	1191
1201	1201	1211
1221	1221	1231
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1261	1261	1271
1281	1281	1291
1301	1301	1311
1321	1321	1331
1341	1341	1351
1361	1361	1371
1381	1381	1391
1401	1401	1411
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1441	1441	1451
1461	1461	1471
1481	1481	1491
1501	1501	1511
1521	1521	1531
1541	1541	1551
1561	1561	1571
1581	1581	1591
1601	1601	1611
1621	1621	1631
1641	1641	1651
1661	1661	1671
1681	1681	1691
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1741	1741	1751
1761	1761	1771
1781	1781	1791
1801	1801	1811
1821	1821	1831
1841	1841	1851
1861	1861	1871
1881	1881	1891
1901	1901	1911
1921	1921	1931
1941	1941	1951
1961	1961	1971
1981	1981	1991
2001	2001	2011
2021	2021	2031
2041	2041	2051
2061	2061	2071
2081	2081	2091
2101	2101	2111
2121	2121	2131
2141	2141	2151
2161	2161	2171
2181	2181	2191
2201	2201	2211
2221	2221	2231
2241	2241	2251
2261	2261	2271
2281	2281	2291
2301	2301	2311
2321	2321	2331
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2881	2881	2891
2901	2901	2911
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2941	2941	2951
2961	2961	2971
2981	2981	2991
3001	3001	3011
3021	3021	3031
3041	3041	3051
3061	3061	3071
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3101	3101	3111
3121	3121	3131
3141	3141	3151
3161	3161	3171
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3981	3981	3991
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4081	4081	4091
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4121	4121	4131
4141	4141	4151
4161	4161	4171
4181	4181	4191
4201	4201	4211
4221	4221	4231
4241	4241	4251
4261	4261	4271
4281	4281	4291
4301	4301	4311
4321	4321	4331
4341	4341	4351
4361	4361	4371
4381	4381	4391
4401	4401	4411
4421	4421	4431
4441	4441	4451
4461	4461	4471
4481	4481	4491
4501	4501	4511
4521	4521	4531
4541	4541	4551
4561	4561	4571
4581	4581	4591
4601	4601	4611
4621	4621	4631
4641	4641	4651
4661	4661	4671
4681	4681	4691
4701	4701	4711
4721	4721	4731
4741	4741	4751
4761	4761	4771
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5101	5101	5111
5121	5121	5131
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5161	5161	5171
5181	5181	5191
5201	5201	5211
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5241	5241	5251
5261	5261	5271
5281	5281	5291
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5321	5321	5331
5341	5341	5351
5361	5361	5371
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5461	5461	5471
5481	5481	5491
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5861	5861	5871
5881	5881	5891
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5921	5921	5931
5941	5941	5951
5961	5961	5971
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6181	6181	6191
6201	6201	6211
6221	6221	6231
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6301	6301	6311
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6361	6361	6371
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6481	6481	6491
6501	6501	6511
6521	6521	6531
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6561	6561	6571
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6601	6601	6611
6621	6621	6631
6641	6641	6651
6661	6661	6671
6681	6681	6691
6701	6701	6711



UNLESS OTHERWISE SPECIFIED: DIMENSIONS IN IN. (DECIMALS) CONNECTION VALUES ARE IN P.S. RESISTOR VALUES ARE IN OHMS TOLERANCES ON:		CUT MT MTT CONNECTIONS LAB 1. DIMENSIONAL TOL.		UNIT OF MEASUREMENT MANNED SPACECRAFT CENTER HEALTON, ILLINOIS	
TOLERANCES ON: FRACTIONS: DECIMALS: AND 1/16 DECIMALS: .005 .010 .015 .020 .025 .030 .035 .040 .045 .050 .055 .060 .065 .070 .075 .080 .085 .090 .095 .100 .105 .110 .115 .120 .125 .130 .135 .140 .145 .150 .155 .160 .165 .170 .175 .180 .185 .190 .195 .200 .205 .210 .215 .220 .225 .230 .235 .240 .245 .250 .255 .260 .265 .270 .275 .280 .285 .290 .295 .300 .305 .310 .315 .320 .325 .330 .335 .340 .345 .350 .355 .360 .365 .370 .375 .380 .385 .390 .395 .400 .405 .410 .415 .420 .425 .430 .435 .440 .445 .450 .455 .460 .465 .470 .475 .480 .485 .490 .495 .500 .505 .510 .515 .520 .525 .530 .535 .540 .545 .550 .555 .560 .565 .570 .575 .580 .585 .590 .595 .600 .605 .610 .615 .620 .625 .630 .635 .640 .645 .650 .655 .660 .665 .670 .675 .680 .685 .690 .695 .700 .705 .710 .715 .720 .725 .730 .735 .740 .745 .750 .755 .760 .765 .770 .775 .780 .785 .790 .795 .800 .805 .810 .815 .820 .825 .830 .835 .840 .845 .850 .855 .860 .865 .870 .875 .880 .885 .890 .895 .900 .905 .910 .915 .920 .925 .930 .935 .940 .945 .950 .955 .960 .965 .970 .975 .980 .985 .990 .995 1.000 1.005 1.010 1.015 1.020 1.025 1.030 1.035 1.040 1.045 1.050 1.055 1.060 1.065 1.070 1.075 1.080 1.085 1.090 1.095 1.100 1.105 1.110 1.115 1.120 1.125 1.130 1.135 1.140 1.145 1.150 1.155 1.160 1.165 1.170 1.175 1.180 1.185 1.190 1.195 1.200 1.205 1.210 1.215 1.220 1.225 1.230 1.235 1.240 1.245 1.250 1.255 1.260 1.265 1.270 1.275 1.280 1.285 1.290 1.295 1.300 1.305 1.310 1.315 1.320 1.325 1.330 1.335 1.340 1.345 1.350 1.355 1.360 1.365 1.370 1.375 1.380 1.385 1.390 1.395 1.400 1.405 1.410 1.415 1.420 1.425 1.430 1.435 1.440 1.445 1.450 1.455 1.460 1.465 1.470 1.475 1.480 1.485 1.490 1.495 1.500 1.505 1.510 1.515 1.520 1.525 1.530 1.535 1.540 1.545 1.550 1.555 1.560 1.565 1.570 1.575 1.580 1.585 1.590 1.595 1.600 1.605 1.610 1.615 1.620 1.625 1.630 1.635 1.640 1.645 1.650 1.655 1.660 1.665 1.670 1.675 1.680 1.685 1.690 1.695 1.700 1.705 1.710 1.715 1.720 1.725 1.730 1.735 1.740 1.745 1.750 1.755 1.760 1.765 1.770 1.775 1.780 1.785 1.790 1.795 1.800 1.805 1.810 1.815 1.820 1.825 1.830 1.835 1.840 1.845 1.850 1.855 1.860 1.865 1.870 1.875 1.880 1.885 1.890 1.895 1.900 1.905 1.910 1.915 1.920 1.925 1.930 1.935 1.940 1.945 1.950 1.955 1.960 1.965 1.970 1.975 1.980 1.985 1.990 1.995 2.000 2.005 2.010 2.015 2.020 2.025 2.030 2.035 2.040 2.045 2.050 2.055 2.060 2.065 2.070 2.075 2.080 2.085 2.090 2.095 2.100 2.105 2.110 2.115 2.120 2.125 2.130 2.135 2.140 2.145 2.150 2.155 2.160 2.165 2.170 2.175 2.180 2.185 2.190 2.195 2.200 2.205 2.210 2.215 2.220 2.225 2.230 2.235 2.240 2.245 2.250 2.255 2.260 2.265 2.270 2.275 2.280 2.285 2.290 2.295 2.300 2.305 2.310 2.315 2.320 2.325 2.330 2.335 2.340 2.345 2.350 2.355 2.360 2.365 2.370 2.375 2.380 2.385 2.390 2.395 2.400 2.405 2.410 2.415 2.420 2.425 2.430 2.435 2.440 2.445 2.450 2.455 2.460 2.465 2.470 2.475 2.480 2.485 2.490 2.495 2.500 2.505 2.510 2.515 2.520 2.525 2.530 2.535 2.540 2.545 2.550 2.555 2.560 2.565 2.570 2.575 2.580 2.585 2.590 2.595 2.600 2.605 2.610 2.615 2.620 2.625 2.630 2.635 2.640 2.645 2.650 2.655 2.660 2.665 2.670 2.675 2.680 2.685 2.690 2.695 2.700 2.705 2.710 2.715 2.720 2.725 2.730 2.735 2.740 2.745 2.750 2.755 2.760 2.765 2.770 2.775 2.780 2.785 2.790 2.795 2.800 2.805 2.810 2.815 2.820 2.825 2.830 2.835 2.840 2.845 2.850 2.855 2.860 2.865 2.870 2.875 2.880 2.885 2.890 2.895 2.900 2.905 2.910 2.915 2.920 2.925 2.930 2.935 2.940 2.945 2.950 2.955 2.960 2.965 2.970 2.975 2.980 2.985 2.990 2.995 3.000 3.005 3.010 3.015 3.020 3.025 3.030 3.035 3.040 3.045 3.050 3.055 3.060 3.065 3.070 3.075 3.080 3.085 3.090 3.095 3.100 3.105 3.110 3.115 3.120 3.125 3.130 3.135 3.140 3.145 3.150 3.155 3.160 3.165 3.170 3.175 3.180 3.185 3.190 3.195 3.200 3.205 3.210 3.215 3.220 3.225 3.230 3.235 3.240 3.245 3.250 3.255 3.260 3.265 3.270 3.275 3.280 3.285 3.290 3.295 3.300 3.305 3.310 3.315 3.320 3.325 3.330 3.335 3.340 3.345 3.350 3.355 3.360 3.365 3.370 3.375 3.380 3.385 3.390 3.395 3.400 3.405 3.410 3.415 3.420 3.425 3.430 3.435 3.440 3.445 3.450 3.455 3.460 3.465 3.470 3.475 3.480 3.485 3.490 3.495 3.500 3.505 3.510 3.515 3.520 3.525 3.530 3.535 3.540 3.545 3.550 3.555 3.560 3.565 3.570 3.575 3.580 3.585 3.590 3.595 3.600 3.605 3.610 3.615 3.620 3.625 3.630 3.635 3.640 3.645 3.650 3.655 3.660 3.665 3.670 3.675 3.680 3.685 3.690 3.695 3.700 3.705 3.710 3.715 3.720 3.725 3.730 3.735 3.740 3.745 3.750 3.755 3.760 3.765 3.770 3.775 3.780 3.785 3.790 3.795 3.800 3.805 3.810 3.815 3.820 3.825 3.830 3.835 3.840 3.845 3.850 3.855 3.860 3.865 3.870 3.875 3.880 3.885 3.890 3.895 3.900 3.905 3.910 3.915 3.920 3.925 3.930 3.935 3.940 3.945 3.950 3.955 3.960 3.965 3.970 3.975 3.980 3.985 3.990 3.995 4.000 4.005 4.010 4.015 4.020 4.025 4.030 4.035 4.040 4.045 4.050 4.055 4.060 4.065 4.070 4.075 4.080 4.085 4.090 4.095 4.100 4.105 4.110 4.115 4.120 4.125 4.130 4.135 4.140 4.145 4.150 4.155 4.160 4.165 4.170 4.175 4.180 4.185 4.190 4.195 4.200 4.205 4.210 4.215 4.220 4.225 4.230 4.235 4.240 4.245 4.250 4.255 4.260 4.265 4.270 4.275 4.280 4.285 4.290 4.295 4.300 4.305 4.310 4.315 4.320 4.325 4.330 4.335 4.340 4.345 4.350 4.355 4.360 4.365 4.370 4.375 4.380 4.385 4.390 4.395 4.400 4.405 4.410 4.415 4.420 4.425 4.430 4.435 4.440 4.445 4.450 4.455 4.460 4.465 4.470 4.475 4.480 4.485 4.490 4.495 4.500 4.505 4.510 4.515 4.520 4.525 4.530 4.535 4.540 4.545 4.550 4.555 4.560 4.565 4.570 4.575 4.580 4.585 4.590 4.595 4.600 4.605 4.610 4.615 4.620 4.625 4.630 4.635 4.640 4.645 4.650 4.655 4.660 4.665 4.670 4.675 4.680 4.685 4.690 4.695 4.700 4.705 4.710 4.715 4.720 4.725 4.730 4.735 4.740 4.745 4.750 4.755 4.760 4.765 4.770 4.775 4.780 4.785 4.790 4.795 4.800 4.805 4.810 4.815 4.820 4.825 4.830 4.835 4.840 4.845 4.850 4.855 4.860 4.865 4.870 4.875 4.880 4.885 4.890 4.895 4.900 4.905 4.910 4.915 4.920 4.925 4.930 4.935 4.940 4.945 4.950 4.955 4.960 4.965 4.970 4.975 4.980 4.985 4.990 4.995 5.000 5.005 5.010 5.015 5.020 5.025 5.030 5.035 5.040 5.045 5.050 5.055 5.060 5.065 5.070 5.075 5.080 5.085 5.090 5.095 5.100 5.105 5.110 5.115 5.120 5.125 5.130 5.135 5.140 5.145 5.150 5.155 5.160 5.165 5.170 5.175 5.180 5.185 5.190 5.195 5.200 5.205 5.210 5.215 5.220 5.225 5.230 5.235 5.240 5.245 5.250 5.255 5.260 5.265 5.270 5.275 5.280 5.285 5.290 5.295 5.300 5.305 5.310 5.315 5.320 5.325 5.330 5.335 5.340 5.345 5.350 5.355 5.360 5.365 5.370 5.375 5.380 5.385 5.390 5.395 5.400 5.405 5.410 5.415 5.420 5.425 5.430 5.435 5.440 5.445 5.450 5.455 5.460 5.465 5.470 5.475 5.480 5.485 5.490 5.495 5.500 5.505 5.510 5.515 5.520 5.525 5.530 5.535 5.540 5.545 5.550 5.555 5.560 5.565 5.570 5.575 5.580 5.585 5.590 5.595 5.600 5.605 5.610 5.615 5.620 5.625 5.630 5.635 5.640 5.645 5.650					

CI	PART NO.	VALUE
	1006777-1	10
	-15	120
	-18	330
	-20	470
	-22	680
	1006777-23	820
SEE NOTE 21	-21	5
1006777-6	-22C	
1006777-19	-23	

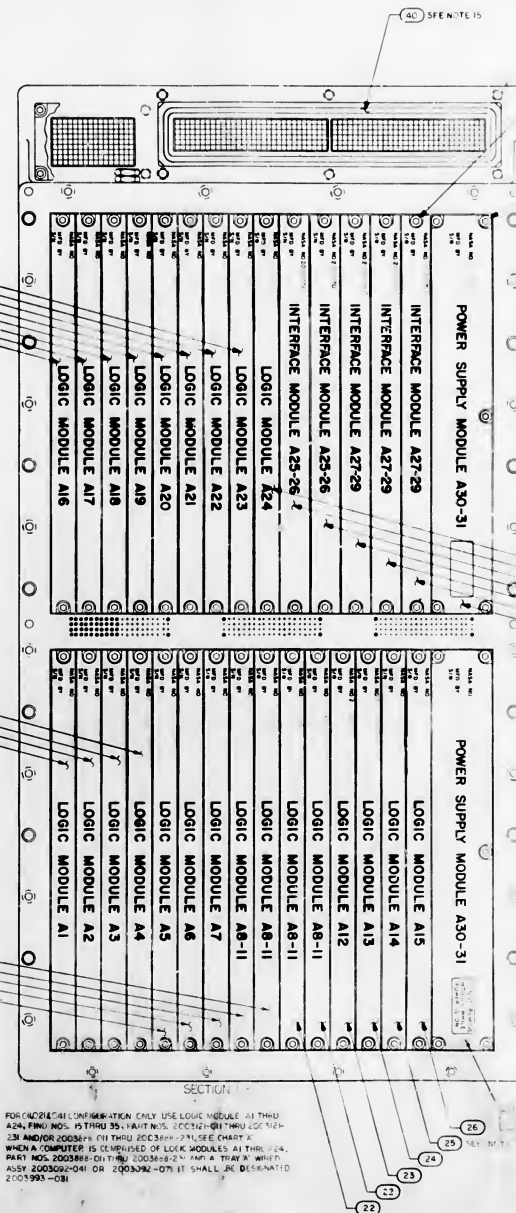


3.70 SEE NOTE 41
3.68

PACKAGING REFERENCE DRAWINGS
1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014262
3. AGC SHIPPING CONTAINER 1006421

NOTES: (CONT.)

33. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN ±.002 OF SURFACE B USING FIND NO. 72, NOT TO INCLUDE .004 REF. DIMENSION OF FIND NO. 72.
34. SHIM, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN ±.002 OF SURFACE B USING FIND NO. 71.
35. USE TRAY A WIPED ASSY PART NO. 2003092-041 OR PART NO. 2003092-061 OR PART NO. 2003092-071.
36. FOR -031 CONFIGURATION ONLY USE LOGIC MODULE KIT TRAY A24 PART NOS. 2003092-011 THRU 2003092-071, SEE CHART 'A'.



SECTION

SECTION D-D

SECTION G-G

SEE SHEET 1

LOGA REF

SEE NOTE 33

6 REF

72 REF

SCALE 2/1

72 SH NOTES 32 & 33

1 REF

68 REF

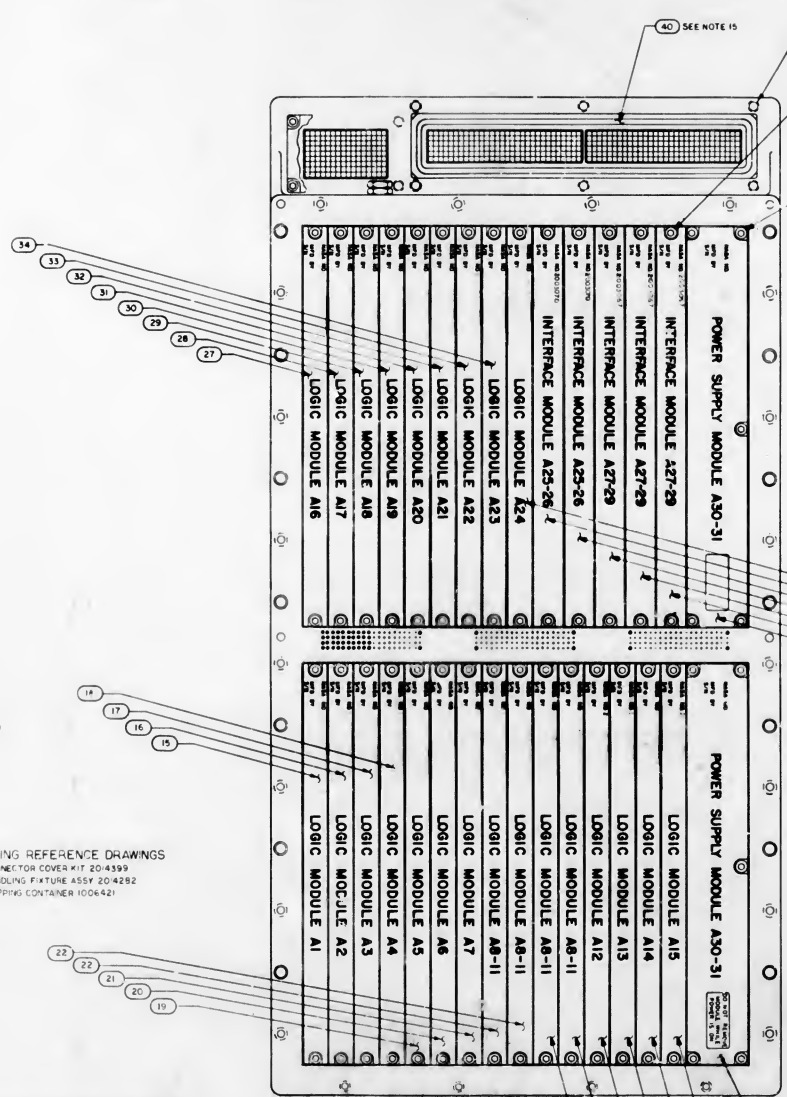
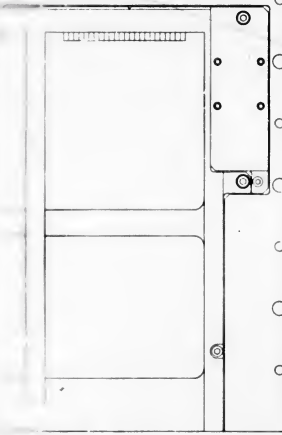
85 REF

6 REF

SEE NOTES 12 & 26

71 SEE NOTE 34

PARTIAL SECTION H-H
FOR -Q31574



NOTES CONT'D:

79. A" DIM TAKEN 3.50 FROM EDGE OF FIND NO.35
B" DIM TAKEN 3.50 FROM EDGE OF FIND NO.35
C" FOLLOWING FROM THE POINT OF VIBRATION
DAMPING PAD, FIND NO.78 AND SHM, FIND NO.79
41. (A) MEASURE DIMENSIONS A & B (SEE PARTIAL SECTION 44-4)
TO TWO DIMENSIONS FROM THE POINT OF VIBRATION. MEASURE MATERIAL BE
VIBRATED MUST BE EQUAL TO THE AVERAGE OF DIMENSIONS A & B
PLUS OR MINUS 0.0024 THE THICKNESS OF THE MATERIAL.
MACHINING THE SHM, FIND NO.79 TO THE REQUIRED THICKNESS
PRIOR TO BONDING TO FIND NO.78
42. (A) BOND FIND NO.79 AT THE POINT OF THICKNESS, T, FIND
NO.78 USING 10063555 VON BONDING MATERIAL SPARGLY
(B) BOND ASSY OF FIND NO.78, TO FIND NO.79 USING 1006358
BOND IN CENTER AREA AND ON BOTH LONG FIND NO.78 TO
INTERFACE WITH FIND NO.96
43. WHEN FIND NO.74, 35, 37, OR B IS REMOVE AND REPLACED
REPEAT NOTE 41
44. FIND NOS WITHIN A TO BE DONE AT ALL TIMES, THREE HOLES
ARE NOT NEEDED, THIS INCLUDES THE HOLES IN THE CENTER AREA
TONGUED SUFFICIENTLY TO SEAL THE HOLES, FIND NO.44 IS
TO BE TONGUED TO HOLES IN FLYING INLET TO BE TONGUED TO HOLES IN NON-CENTRAL, FIND NOS TO
BE TONGUED TO HOLES IN FLYING INLET TO BE TONGUED TO HOLES IN NON-CENTRAL, FIND NOS TO
BE TONGUED TO HOLES IN FLYING INLET TO BE TONGUED TO HOLES IN NON-CENTRAL, FIND NOS TO
SHIPPED BUT REQUIRED SHALL BE IDENTIFIED PER 10020204 SHIPPED, UNASSEMBLED
45. ~~CONDUCT INSPECTION INTO SPECIFIC SEALER/SEALING MATERIALS~~
CONDUCT INSPECTION INTO SMALL, NOT BE EXCESSIVE, CURE IN ACTION TO MP FOR ANALYSIS
46. WITH A PRESSURE DIFFERENTIAL OF 2.5 PSI IN THE COMPUTER, THE
MAX DEFLECTION OF FIND NO.79 AT A COVER SHALL BE .325
OR WHEEL FOR HATCH COVER, INSPECTION, 2.05 INCHES THE APPLICABLE
WIRING CHART FROM THAT WIRING ASSEMBLY 2003-92

PACKAGING REFERENCE DRAWINGS

1. AGC CONNECTOR COVER KIT 20/4399
2. AGC HANDLING FIXTURE ASSY 20/4282
3. AGC SHIPPING CONTAINER 1006421

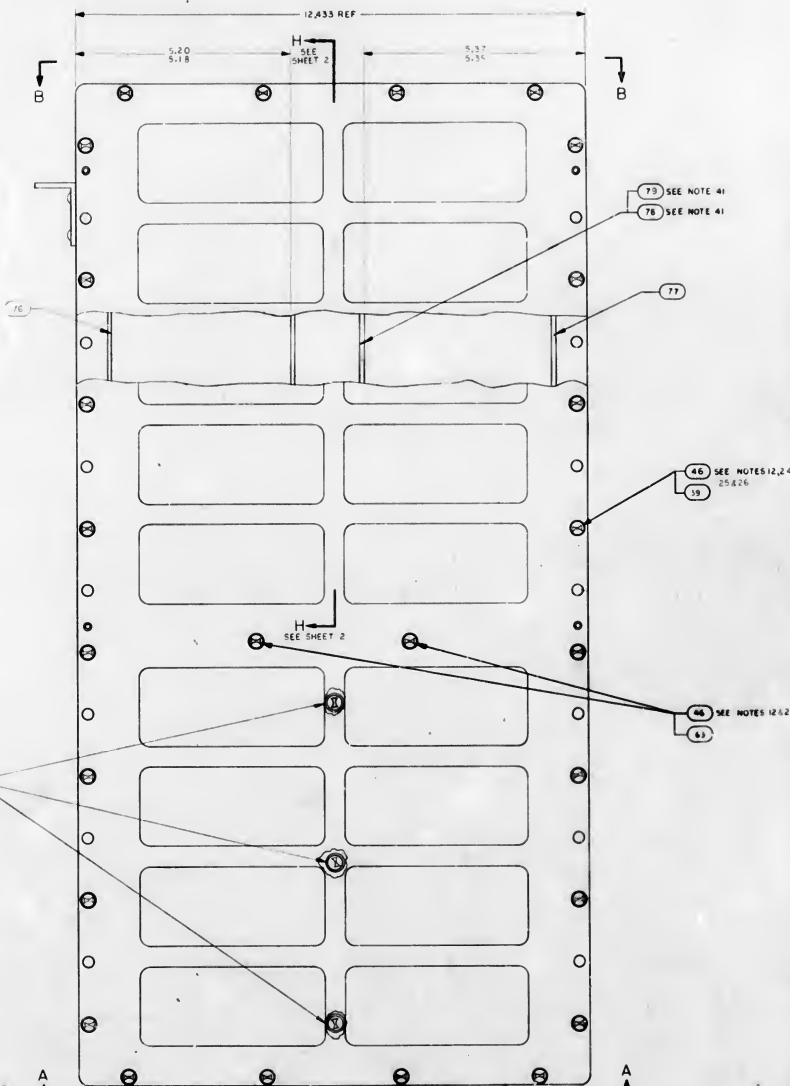
NOTES (CONT.)

33. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND N. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B USING
FIND NO. 72, NGL TO INCLUDE .064 REF
DIMENSION OF FIND NO. 72
34. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B
USING FIND NO. 71
35. USE TRAY A WIRED ASSY PART NO. 2003092 - C41 OR PART
NO. 2003092 - C61 OR PART NO. 2001092 - U71
36. FOR -031 COMBINATION ONLY USE LOGIC MODULE A THRU A24
PART NOS. 2003088-01 THRU 2003088-23, SEE CHART A

37. FOR C0218/041 CONFIRMATION ONLY USE LOGIC MODULE A1 THRU A24, FINO NOS. 15 THRU 35. PART NOS. 20030018-01 THRU 20030212-231 AND C0230000-01 THRU 20030000-231, SEE CHART A.
38. WHEN A COMPUTER IS COMPRISED OF LOGIC MODULES A1 THRU A24, PART NOS. 20030000-01 THRU 20030000-241 SHALL BE TRAY A. WIRE ASSY 20030002-041 CR 20030002-071 IS NOT BE DESIGNATED

[illegible]

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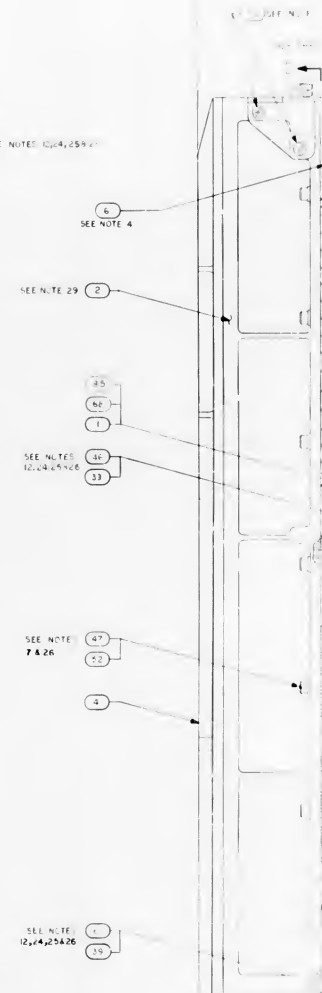


NOTE APPLICATION	
DASH NO.	NOTES APPLICABLE
-011	1 THRU 34 37 43 45 46
-021	1 THRU 35 37 43 45 46
-031	1 THRU 35 36 39 THRU 46
-041	1 THRU 35 37 39 THRU 46
-051	1 THRU 35 37 39 THRU 46
-061	1 THRU 34 36 43 THRU 46

[illegible][illegible]

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70387
2. PHANTAL LINES DENOTE ACQ COLLOCATE AND HANGING FIXTURE TO BE SUPPLIED BY NORTH AMERICAN AVIATION, INC
3. ADD SILICONE COMPOUND DOWBOND TO FLOODE METAL SURFACES AND TRAY MOUNTING SURFACES
4. ADD TORQUE FND NO.53 AND FND NO.603 TO FND NO.2 TO FND NO.1 TO ASSEMBLY OF FND NO.2 TO FND NO.1 OR FND NO.68 OR FND NO.195
5. TORQUE FND NO.43 TO FND NO.1 OR FND NO.68 OR FND NO.195 TO FND NO.195
6. UNLESS OTHERWISE SPECIFIED TORQUE ALL MODULE MOUNTING SCREWS 15/19 INCH POUNDS
7. TORQUE FND NO.47 TO 28/32 INCH POUNDS
8. TORQUE FND NO.195 TO SATISFY 3/60 INCH LBS. 540-1000H
9. SUPPLY SEALING COMPOUND MIL-S-22473 GRADE TO FND NO.53, FND NO.56 AND FND NO.44
10. SUPPLY 1/4" ASSEMBLY SCREWS TO FND NO.53, FND NO.56 AND FND NO.44 AND 1/4" ASSEMBLY SCREWS TO FND NO.53, FND NO.56 AND FND NO.44
11. TORQUE FOR FND NO.36 AND FND NO.195 MOUNTING SCREWS TO BE 1/2 INCH POUNDS
12. TORQUE FOR FND NO.46, 49, 54 AND FND NO.195 TO BE 18/22 INCH POUNDS
13. TORQUE FOR FND NO.52 AND FND NO.55 TO BE 4/6 INCH POUNDS
14. TORQUE FOR FND NO.44 AND FND NO.56 TO BE 13/17 INCH POUNDS
15. TORQUE SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
16. MAINTAIN WATER TIGHTNESS AND RELATED AIR NOT APPLICABLE DASHING, SERIAL NO. AND CONTRACT NO. FOR 100/2002 AND SERIALIZE FOR 100/2002
17. THIS SPACE [] IS FOR THE USER WHO DISAPPROVES THIS ASSEMBLY. THIS ASSEMBLY MUST BE CAPABLE OF MEETING ELECTRICAL BONDING REQUIREMENTS FOR THE MAXIMUM LIFE OF THE ASSEMBLY

[illegible]

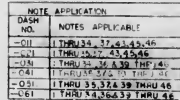
18. BOND FINE NO. 58 TO FINE NO. 61 POSITION SHOULD
 19. USE 1000338 CURE AT ROOM TEMP 24 HOURS prior TO ASSESS
 20. REFERENCED MODIFICATIONS MUST NOT BE REPLACED
 21. OR INTERCHANGED WITH ANY OTHER MODIFICATION
 22. SELECTION PROCEDURE PER NOTE 10
 23. THE VALUE OF C1 TO BE DETERMINED AT ELECTRICAL
 24. TEST AND SELECTED FROM APPROPRIATE CHART
 25. WHEN THE VALUE OF C1 IS ZERO NO COMPROMISE SHALL
 26. BE INCURRED TO THE EXTENT OF THE MODIFICATION
 27. OF C1 USING MODIFICATION 200 METHOD C OR USING PRIMER PER
 28. MODIFICATION 200
 29. WELD PER MOD02005
 30. ASSAYED TO BE USED WITH SMOOTH FACE OF FINE NO. 39
 31. IN CONTACT WITH SMOOTH WELD
 32. FINE NO. 39, 48, 54, 57, 58 TO BE DISCARDED AND REPLACED WITH NEW
 33. FINE NO. 39, 48, 54, 57, 58 TO BE DISCARDED
 34. REAL EXPOSED HARDWARE ASSEMBLIES WITH 002 MIN THICK COATING
 35. OF FINE NO. 39, 48, 54, 57, 58 TO BE DISCARDED
 36. FINE NO. 39, 48, 54, 57, 58 TO BE DISCARDED
 37. FINE NO. 39, 48, 54, 57, 58 TO BE DISCARDED
 38. FINE NO. 39, 48, 54, 57, 58 TO BE DISCARDED
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 97. FINE NO. 39, 48, 54, 57, 58 TO BE DISCARDED
 98. FINE NO. 39, 48, 54, 57, 58 TO BE DISCARDED
 99. FINE NO. 39, 48, 54, 57, 58 TO BE DISCARDED
 100. FINE NO. 39, 48, 54, 57, 58 TO BE DISCARDED

27. STENCILING SHOWN FOR ORIENTATION ONLY.
28. KEEP ALL MATING THREADS OF SCREWS, TRAYS AND MID-SPACER INSERTS FREE OF SILICONE COMPOUND.
29. FILL FEMALE INSULATORS OF B41 AND B42 USING A MIN. 70° PRIOR TO ASSEMBLY CAP & FINGER 2.

SEE NOTE
12, 24, 25 & 26

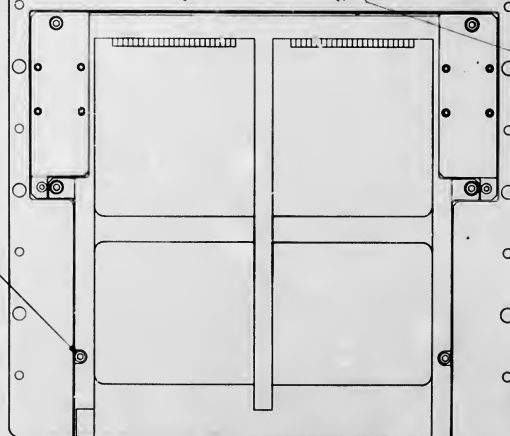
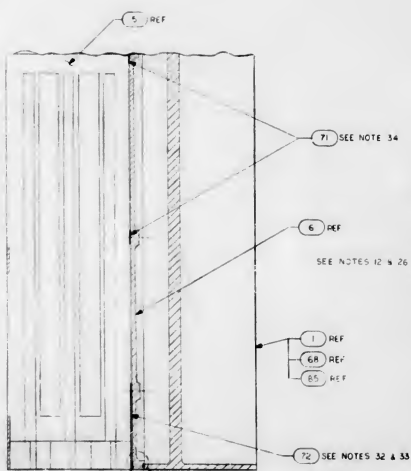
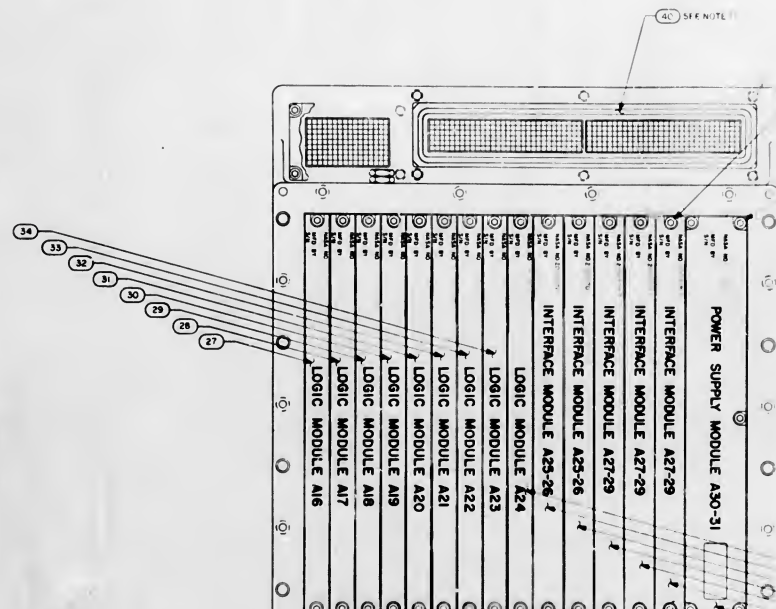
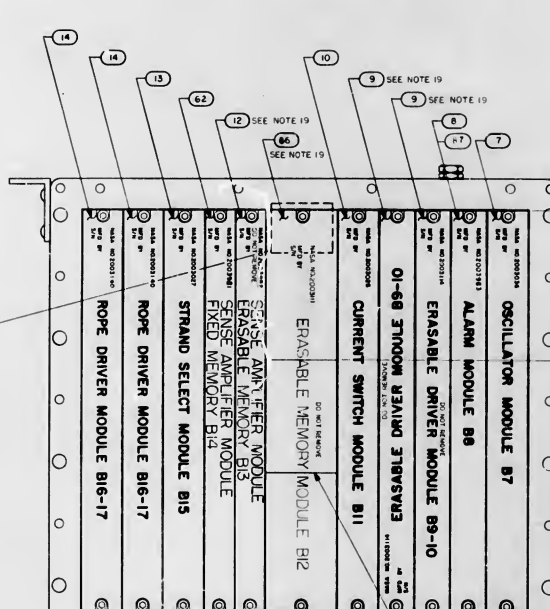
39. SEE SHEET 2
40. SEE SHEET 2
41. SEE SHEET 2
42. SEE SHEET 2
47. SEE SHEET 2

2003'993

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CANNOTOR VALUES ARE IN P-2 RESISTOR VALUES ARE IN OHMS TOLERANCES ARE FRACTIONS DECIMALS AND PERCENTS DO NOT SCALE THIS DRAWING MATERIALS	MIT INSTRUMENTATION LAB A RESEARCH CENTER	MAINTAINED SPACE CENTER HOUSTON TEXAS
20033591 NEXT APT. - USED ON APPLICATION	DRAWN BY CHECKED APPROVED APPROVING APPROVED BY DATE	COMPUTER ASSEMBLY DRAWING NO 20033591 SHEET 1 OF 1

PART NO.	VALUE JUF
006777	0
-15	180
-18	330
-20	470
-22	680
1006777 23	820
SEE NOTE 1	0
100677	220
106777-17	270



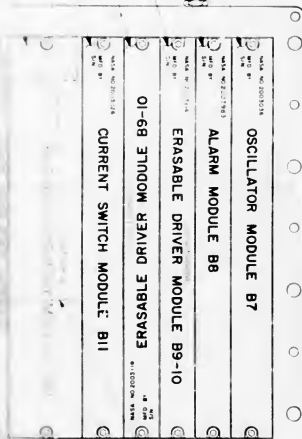
PACKAGING REFERENCE DRAWINGS

1. AGC CONNECTOR COVER KIT 2014399
2. AGC HANDLING FIXTURE ASSY 2014282
3. AGC SHIPPING CONTAINER 1006421

NOTES: (CONT.)

33. SHIN, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE C TO WITHIN $\pm .002$ OF SURFACE B USING
FIND NO. 72, NOT TO INCLUDE .004 REF
DIMENSION OF FIND NO. 72
34. SHIN, AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6,
SURFACE D TO WITHIN $\pm .002$ OF SURFACE B
USING FIND NO. 72
35. USE TRAY A WIRE ASSY PART NO. 2003092 - 041 CR PART
NO. 2003092-061 CR PART NO. 2003092-071
36. FOR -031 CONFIGURATION USE LOGIC MODULE WITH TRAY A24
PART NO. 2003888-01 THRU 2003888-23, SEE CHART "A"

- [illegible]



PACKAGING REFERENCE DRAWINGS

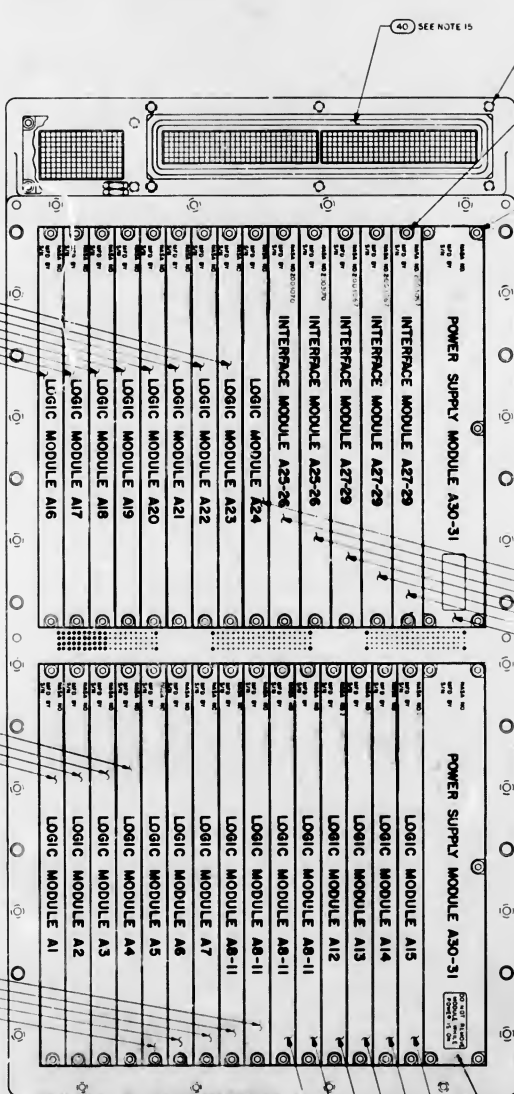
1. AGC CONNECTOR COVER KIT 20-4393
2. AGC WINDING FIXTURE ASSY 20-4292
3. AGC WINDING CONTAINER 100-4241

NOTES (CONT)

33. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN FACE OF SURFACE B USING FIND NO. 72 IN TO INCLUDE .004 REF DIMENSION OF FIND NO. 72
34. SHIM AS REQUIRED, PRIOR TO ASSY OF FIND NO. 6, SURFACE C TO WITHIN FACE OF SURFACE B USING FIND NO. 71
35. USE TRAY WIRE ASSY PART NO. 2003092-01, OF PART NO. 2003092-041 OR PART NO. 2003092-071
36. FOR -031 CONFIGURATION, ONLY USE LOGIC MODULE AT THRU A24 PART NOS. 2003088-011 THRU 2003088-231 (SEE CHART 'A')

37. FOR -021/031 CONFIGURATION, ONLY USE LOGIC MODULE A1 THRU A24, PART NOS. 15 THRU 35, PART NOS. 2003021-01 THRU 2003021-231 AND/OR 2003069-01 THRU 2003069-231 (SEE CHART 'A')
38. WHEN A COMPUTER IS COMPRISED OF LOGIC MODULES A1 THRU A24, PART NOS. 2003031-01 THRU 2003031-231 AND A TRAY WIRE ASSY 2003092-041 OF 2003092-071 IT SHALL BE DESIGNATED 2003993-001

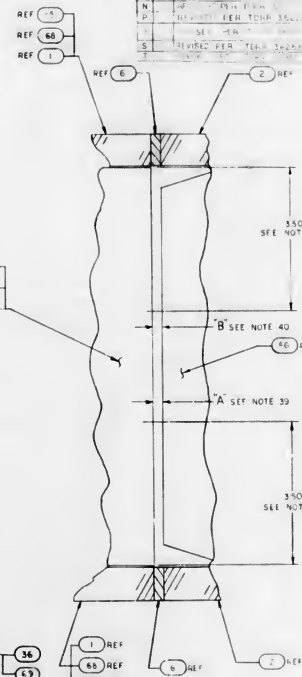
SECTION C-C



NOTES (CONT)

39. 'A' DIM TAKEN 3.50 FROM EDGE OF FIND NO. 35
40. 'B' DIM TAKEN 3.50 FROM EDGE OF FIND NO. 35
41. USE FOLLOWING PROCEDURE FOR INSTALLATION OF VIBRATION DAMPING: PAD FIND NO. 78 AND SHIM FIND NO. 79 (A) MEASURE DIMENSIONS 'A' & 'B' (SEE PARTIAL SECTION H-H) (B) TOTAL DIMENSION OF PAD, FIND NO. 78, SHIM FIND NO. 79, & REF MATERIAL SHALL BE TORQUED TO 2.5/35 IN/LBS. (C) BOND ASSY OF FIND NO. 78, 'A' TO FINE HOLE 'U' IN 100531 BOND IN CENTER AREA AND ON BOTH ENDS, FIND NO. 79 TO INTERFACE WITH FIND NO. 16
42. WHEN FIND NOS. 14, 35, 37, OR 6 IS REMOVED AND REPLACED, REPEAT NOTE 41
43. FIND NOS. 81 THRU 84 TO BE USED AT ALL TIMES. THREADED HOLES ARE NOT IN USE. THIS INCLUDES SHIPPING. ALL SCREWS SHALL BE TORQUED SUFFICIENTLY TO SEAL THREADED HOLE. FIND NO. 84 TO BE TORQUED 20 FT/LBS IN/LBS. SHIM NOT TO BE TORQUED TO 2.5/35 IN/LBS. ALL HARDWARE NOT ASSEMBLED TO COMPUTER WHEN SHIPPED BUT REQUIRED SHALL BE IDENTIFIED PER NO. 2003021-01 & SHIP UNASSEMBLED
44. PRIOR TO INSTALLATION, THE SHIM SHALL BE SOAKED IN VIBRATION DAMPING COMPOUND. THE SHIM SHALL NOT BE EXPOSED TO CURE AT ANY TIME FOR 24 HOURS
45. TORQUE FOR PLUS OF FIND NOS. 81 SHALL BE 2.5/35 IN/LBS WITH A PRESSURE DIFFERENTIAL OF 2.5 PSIG MAX IN THE COMPUTER. THE MAX DEFLECTION OF FIND NO. 81 AT A COIL SHALL BE 1/16" PER AGC WIRELIST FOR PARTICULAR CONFIGURATION. USE 2-021/031 THE APPLICABLE WINDING CHART FROM TRAY WIRE ASSEMBLY 2003092

REV	DATE	DESCRIPTION	BY	CHK	DATE	APPROVED
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PARTIAL SECTION H-H
FOR -021/031

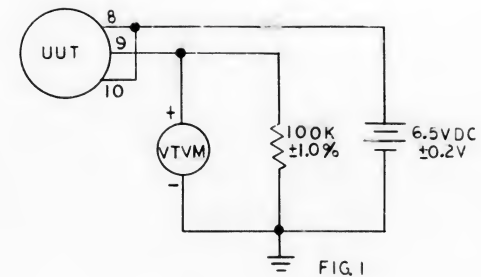
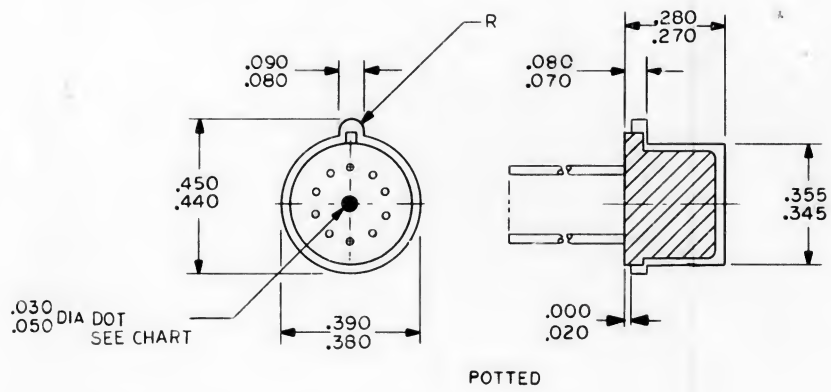
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NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY AND ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO REPRODUCE, COPY, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

2004003 B

REVISIONS 18731			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 19680	27 MAY 67	W. J. W.
B	REVISED PER TDRR 33429	2 MAY 67	W. J. W.

PART NO.	SCD NO.	POTTED	MARKING INK	
2004003-001	1006769	POTTED	1006271-8	SEE NOTE 6
2004003-002	1006769	UNPOTTED	1006271-8	SEE NOTE 6
2004003-003	1006769	POTTED	1006271-11	

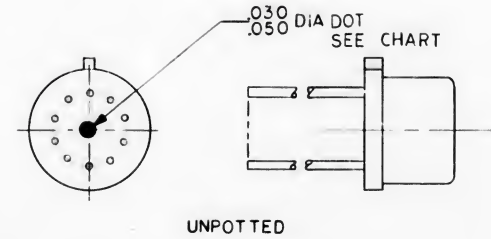


GENERAL REQUIREMENTS:

UPON COMPLETION OF ALL REQUIREMENTS AS SPECIFIED IN ND 1002265 ONLY THOSE SENSE AMPLIFIERS FROM LOTS WHICH QUALIFY FOR FLIGHT HARDWARE UNDER THE PROVISIONS OF ND 1002265 SHALL BE MARKED AS INDICATED IN THIS DOCUMENT

NOTES:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- ELECTRICAL REQUIREMENTS:
 - A ALL SENSE AMPLIFIERS, AFTER ENCAPSULATION, SHALL HAVE THEIR ELECTRICAL ACCEPTANCE REQUIREMENTS WITHIN THE LIMITS SET BY THE ORIGINAL SCD
- CONSTRUCTION REQUIREMENTS:
 - A. ENCAPSULATE PER ND 1002183
 - B. ALL LEADS AND HEADER ARE TO BE FREE OF POTTING MATERIAL AND THEY SHALL NOT SHOW ANY DEFECT DUE TO THE POTTING PROCESS, SUCH AS BENDS, KINKS, PLATING DAMAGE ETC
- THERE SHALL BE A MINIMUM ENCAPSULATION THICKNESS OF .003
- IDENTIFY WITH DRAWING NO. AND REVISION PER ND 1002019
- 2004003-001 AND -002 UNITS SHALL EXHIBIT A LEAKAGE CURRENT OF NMT 10 MICROAMPERES WHEN TESTED AS SHOWN IN FIG. 1



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>W. J. W.</i> DATE <i>12 FEB 69</i>		INTEGRATED SENSE AMPLIFIER (FLIGHT QUALIFIED)	
CHECKED <i>W. J. W.</i> DATE <i>12 FEB 69</i>			
APPROVAL <i>W. J. W.</i> DATE <i>27 APR 65</i>			
APPROVAL <i>W. J. W.</i> DATE <i>27 APR 65</i>			
NASA APPROVAL <i>W. J. W.</i> DATE <i>27 APR 65</i>		CODE IDENT NO. 80230	SIZE C
MIT APPROVAL <i>W. J. W.</i> DATE <i>27 APR 65</i>		NASA DRAWING NO. 2004003	
SCALE 4/1		WT	SHEET 1 OF 1

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
		FRACTIONS DECIMALS ANGLES
		± .001 ± .001 ± .001
		DO NOT SCALE THIS DRAWING
		MATERIAL
		HEAT TREATMENT
NEXT ASSY	USED ON	FINAL FINISH
APPLICATION		

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS AN AUTHORITY, LICENSING, THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

PART NO.	FIND NO. 1 TRANSISTOR NO.	DOT COLOR		MARKING INK	FIND NO. 2
2004004-001	1006323	YELLOW	POTTED	1006271-4	
2004004-002	1006310	GREEN	POTTED	1006271-5	
2004004-003	1006323	YELLOW	UNPOTTED	1006271-4	2004165
2004004-004	1006310	GREEN	UNPOTTED	1006271-5	2004165
2004004-005	1006323	RED	UNPOTTED	1006271-8	2004165

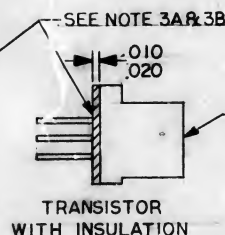
SEE CHART A

GENERAL REQUIREMENT:

UPON COMPLETION OF ALL REQUIREMENTS AS SPECIFIED IN ND 1002266 ONLY THOSE TRANSISTORS FROM LOTS WHICH QUALIFY FOR FLIGHT HARDWARE UNDER THE PROVISIONS OF ND 1002266 SHALL BE MARKED AS INDICATED IN THIS DOCUMENT

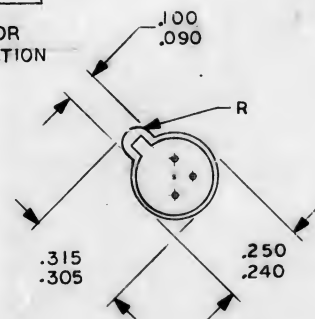
NOTES:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- ELECTRICAL REQUIREMENTS UNLESS OTHERWISE SPECIFIED
 - ALL TRANSISTORS, AFTER ENCAPSULATION, SHALL HAVE THEIR ELECTRICAL ACCEPTANCE REQUIREMENTS WITHIN THE LIMITS SET BY THE ORIGINAL SCD
- CONSTRUCTION REQUIREMENTS:
 - ENCAPSULATE PER ND 1002183 TYPE II
 - ALL LEADS AND HEADER ARE TO BE FREE OF POTTING MATERIAL AND THEY SHALL NOT SHOW ANY DEFECT DUE TO THE POTTING, SUCH AS; BENDS, KINKS, PLATING DAMAGE, ETC
 - THERE SHALL BE A MINIMUM ENCAPSULATION THICKNESS OF .003
- IDENTIFY WITH DRAWING NO. AND REVISION PER ND 1002019
- ~~BOND FIND NO. 2 TO FIND NO. 1 USING 100 PARTS BY WEIGHT OF 1006355, 10 PARTS BY WEIGHT OF TT-T-548, 26.5 PARTS BY WEIGHT OF 1006355 AND CURE AT 160° ± 5°F FOR 16 HOURS MINIMUM~~



MARKING VIEW
POTTED

MARKING VIEW
UNPOTTED



POTTED VIEWS

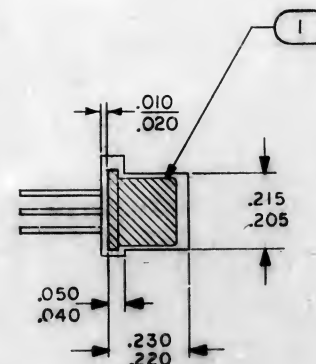
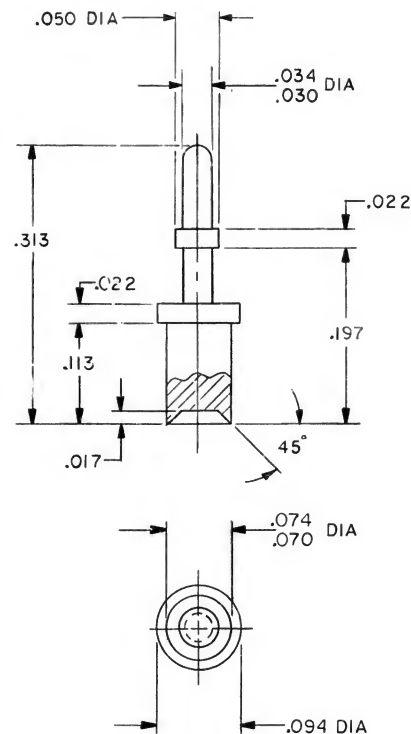


CHART A					
TEST	CONDITIONS	SYM	LIMITS		UNITS
			MIN	MAX	
D.C. CURRENT GAIN	$I_C = 0.1 \text{ mA}$, $V_{CE} = 1.0 \text{ V}$	h_{FE}	25	—	—
COLLECTOR TO BASE CUTOFF CURRENT	$V_{CB} = 8 \text{ V}$, $I_E = 0$	I_{CBO}	—	25	nA
COLLECTOR TO EMITTER SATURATION VOLTAGE	$I_C = 1.6 \text{ MA}$, $I_B = 0.5 \text{ MA}$	(SAT) V_{CE}	—	0.2	V

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
		FRACTIONS DECIMALS ANGLE
		± ± ±
		DO NOT SCALE THIS DRAWING MATERIAL
		HEAT TREATMENT
NEXT ASSY	USED ON	FINAL FINISH
APPLICATION		

1	SEE CHART	INSULATOR, TRANSISTOR	2
1	SEE CHART	TRANSISTOR SILICON (FLY/IT QUALIFIED)	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DWG. NO.	CONTRACT	TRANSISTOR, SILICON (FLIGHT QUALIFIED)	
DRAWN	DATE	CODE IDENT NO. 80230	
CHECKED	DATE	SIZE C	
APPROVAL	DATE	NASA DRAWING NO. 2004004	
APPROVAL	DATE	SCALE 4/1	
NASA APPROVAL	DATE	WT	
MIT APPROVAL	DATE	SHEET 1 OF 1	

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY ORIGINATOR WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWING, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER ENDORSE THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFIRMING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: NICKEL PER MIL-N-45026
3. REMOVE BURRS AND BREAK SHARP EDGES .005/.015
4. UNLESS OTHERWISE SPECIFIED $\sqrt[125]{}$ ALL OVER
5. FINISH: GOLD PLATE IN ACCORDANCE WITH MIL-G-45204, TYPE II, CLASS I (COPPER STRIKE)
6. IDENTIFY PER ND 1002019

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± .005 ± 1° DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 2 HEAT TREATMENT _____ FINAL FINISH SEE NOTE 5
2003008		
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.		
LIST OF MATERIALS					
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>[Signature]</i> DATE <i>2/2/65</i>		TERMINAL ERASABLE MEMORY			
CHECKED <i>[Signature]</i> DATE <i>2/2/65</i>					
APPROVAL <i>[Signature]</i> DATE <i>2/2/65</i>					
NASA APPROVAL <i>[Signature]</i> DATE <i>2/2/65</i>		CODE IDENT NO. 80230	SIZE C		
MIT APPROVAL <i>[Signature]</i> DATE <i>2/2/65</i>		SCALE 10/1	WT		
		SHEET 1	OF 1		

2004012

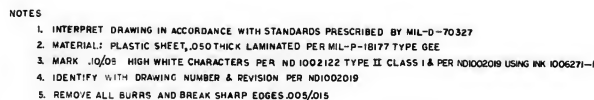
REVISIONS 18684

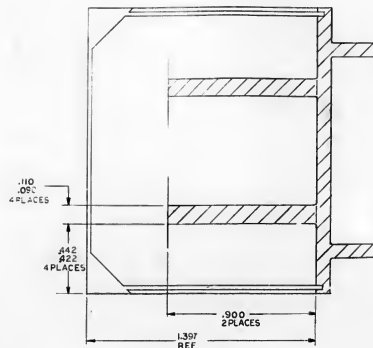
SYM	DESCRIPTION	DATE	APPROVAL
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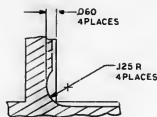
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET, .050" THICK LAMINATED PER MIL-P-15177 TYPE GEE
3. MARK .10/.08 HIGH WHITE CHARACTERS PER ND100212 TYPE II CLASS I & PER ND1002019 USING INK 1006271-1
4. IDENTIFY WITH DRAWING NUMBER & REVISION PER ND1002019
5. REMOVE ALL BURRS AND BREAK SHARP EDGES .005/.015

Q79 FIG 20		PART OR IDENTIFYING NO.		NOMINATION IN DESCRIPTION		FIG NO.	
				-LIST OF MATERIALS			
UNIT'S INSTRUMENTATION LAB				MANNED SPACECRAFT CENTER HUNTSVILLE			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DIMENSIONS: DECIMALS .005 FRACTIONS 1/32 DO NOT SCALE THIS DRAWING MATERIAL:				SIDE PLATE A ERASABLE MEMORY			
SEE NOTE 2							
2003009		HEAT TREATMENT		NADA APPROVAL: <i>WJH</i>		NADA DRAWING NO: 2004014	
NEXT ACT: USING ON		FINAL CHECK:		CODE DESCN'T NO: 802303		SQT: E	
APPLICATOR:				REEL 4/6		PAGE 1	

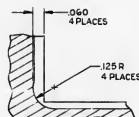
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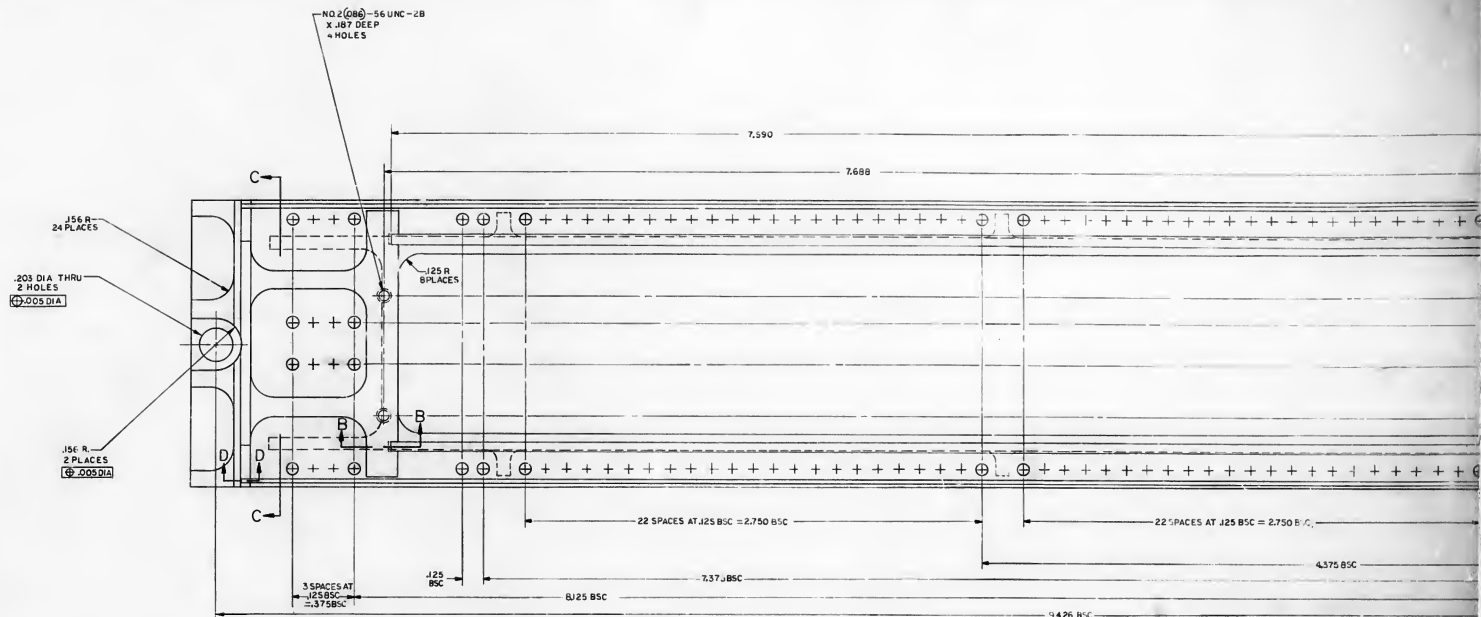
SECTION C-C



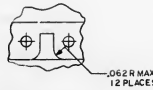
PARTIAL SECTION B-B



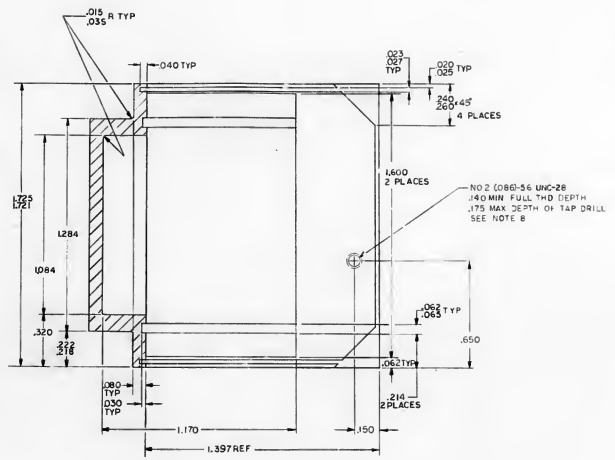
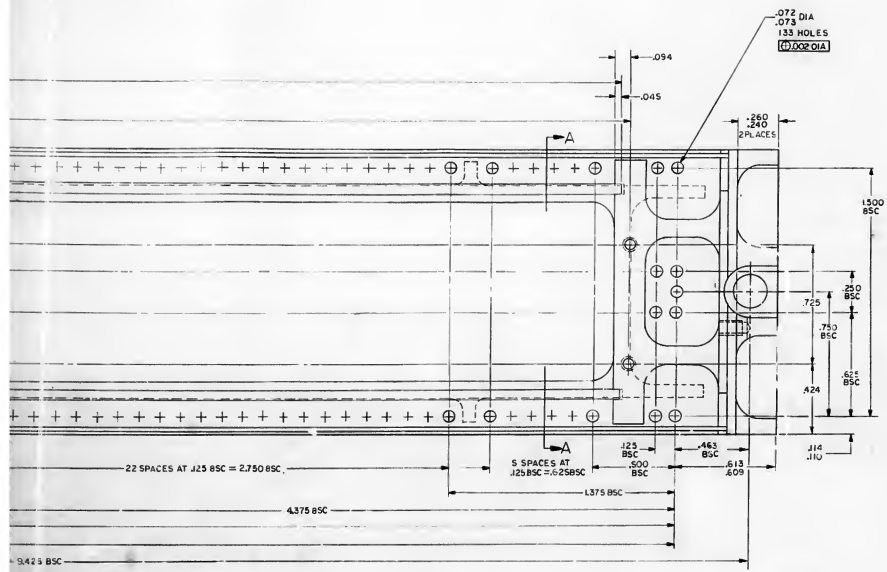
PARTIAL SECTION D-D



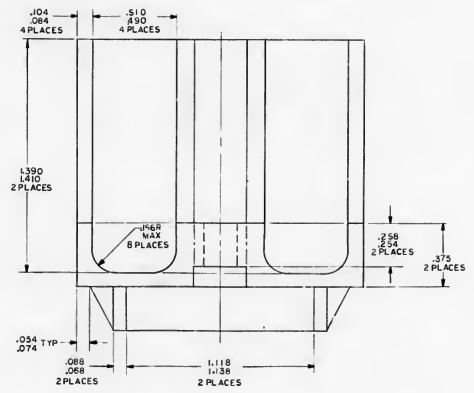
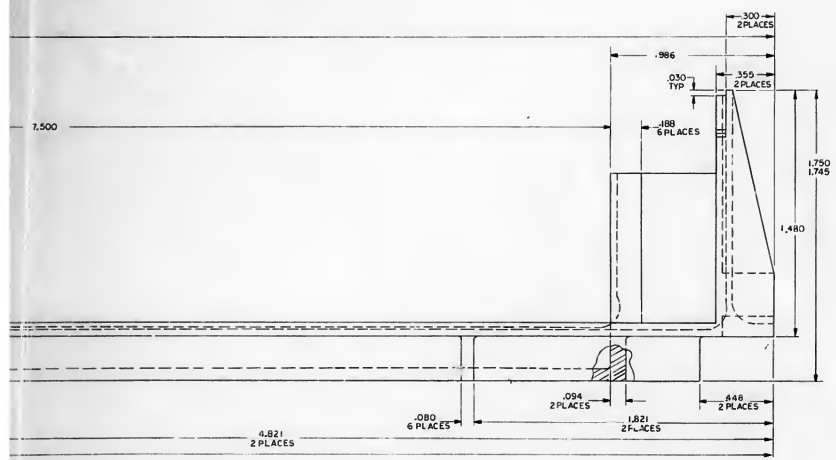
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: MAG ALLOY ZK60A-T5 PER QQ-M-31
 3. FINISH: ANODIZE PER MIL-N-45202, TYPE I, CLASS C
 4. ALL SURFACES UNLESS OTHERWISE SPECIFIED
 5. REMOVE ALL BURRS AND BREAK SHARP EDGES .005-.015
 6. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
 7. IDENTIFY WITH DRAWING NO. AND REVISION PER NDI002019
 8. THREADED HOLE TO BE FREE OF ANODIZE



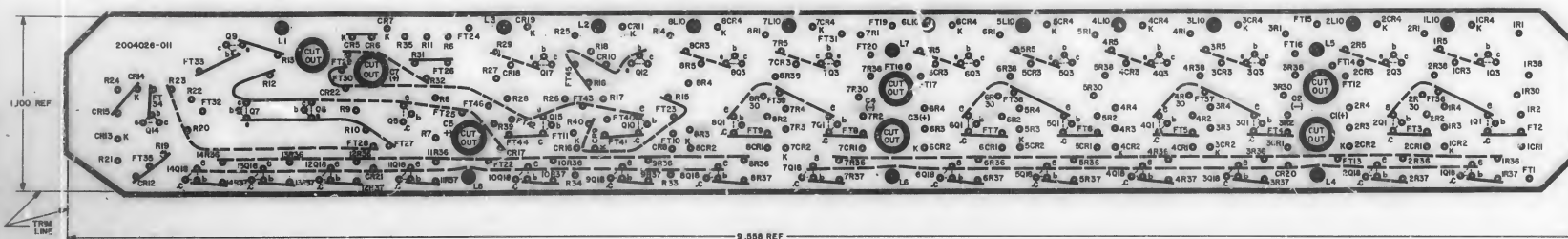
PARTIAL VIEW A-A



SECTION A-A



QTY 8100	PART OR IDENTIFYING NO.	NUMERICALITY OR DESCRIPTION	PRG NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + .005 - .005 DO NOT SCALE THIS DRAWING MATERIAL SEE NOTE 2			
2003010 HEAT TREATMENT HEAT ASBY FINISH APPLICATION SEE NOTE 3			
NATIONAL INSTRUMENTATION LAB HOUSTON, TEXAS DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVAL: [Signature] NASA APPROVAL: [Signature] DATE: 11-65			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS HEADER HOUSING ERASABLE MEMORY CODE IDENT NO: 1712 80230 J NASA DRAWING NO: 2004026			



SEE NOTE

— 2 558 RF

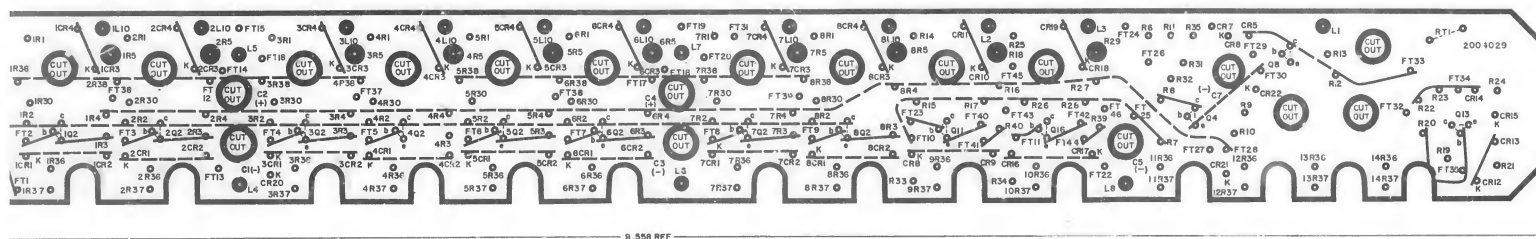
 $\pm .002$
-1.000 PHC TO REF DIM.

BOARD PRESCRIBED
MADE BY A PROCESS
STABILITY

DIMENSIONS SHOWN
F-340 TYPE IB, CLASS 2, STYLE 1A

2004028

[illegible]



DIM. —
SCRIBED
PROCESS

SHOWN
STABLE PER L-F-340, TYPE TB, CLASS 2, STYLE 1A

2004029

LIST OF MATERIALS		LIST OF MATERIALS	
QTY	PART OR IDENTIFYING NO.	QTY	PART OR IDENTIFYING NO.
1	2004029	1	2004029

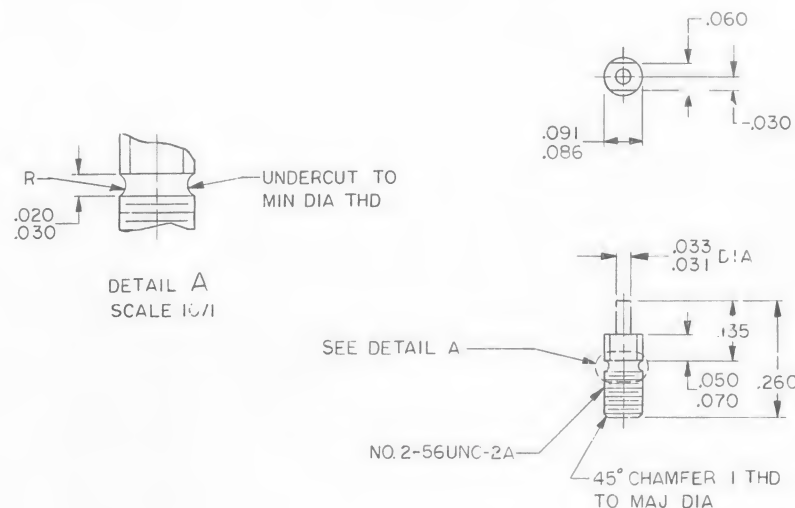
MANNED SPACECRAFT CENTER		INSULATOR (B)	
HOUSTON, TEXAS		PHOTODUPLICATION CENTER	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES	
TOLERANCES ON		TOLERANCES ON	
FRACTIONS	DECIMALS	FRACTIONS	DECIMALS
—	—	—	—
DO NOT SCALE THIS DRAWING		DO NOT SCALE THIS DRAWING	
MATERIAL		MATERIAL	
SEE NOTE 5		SEE NOTE 5	
NEXT TREATMENT		NEXT TREATMENT	
APPLICATION		APPLICATION	
2003014		2003014	
NEXT ASSY		NEXT ASSY	
USED ON		USED ON	
FINAL TEST		FINAL TEST	
MIT APPROVAL		MIT APPROVAL	
SCALE 4/1		SCALE 4/1	
SHEET 1 OF 1		SHEET 1 OF 1	

2004029

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REVISIONS 15730

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

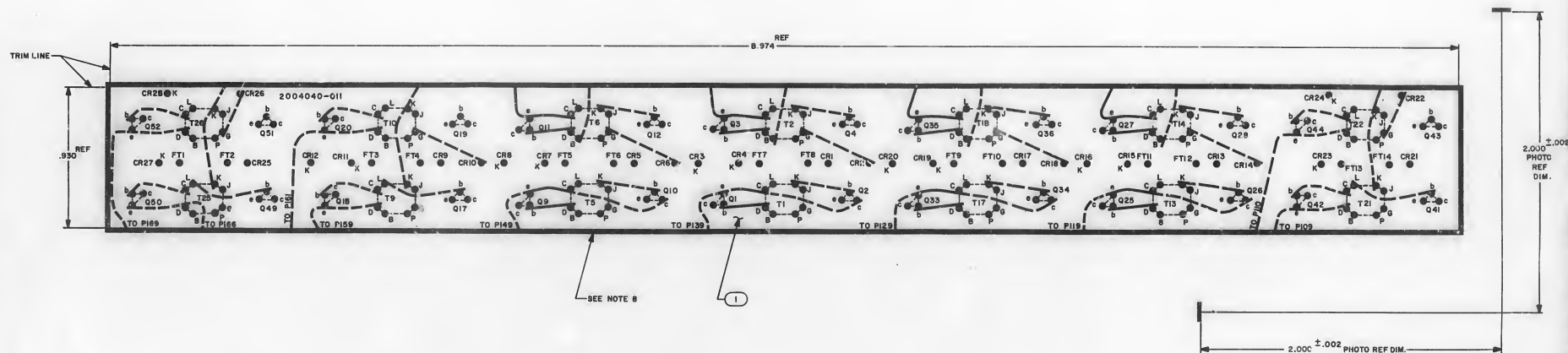


NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: UNPLATED NICKEL IN ACCORDANCE WITH PS 1015400
3. SURFACE QUALITY: 125/ ALL OVER
4. REMOVE ALL BURRS AND BREAK SHARP EDGES .005/.015
5. IDENTIFY PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>L. Kragan</i>	13 JAN 65	TERMINAL, THREADED		
CHECKED <i>R. H. [unclear]</i>	13 JAN 65			
APPROVED <i>R. M. [unclear]</i>	13 JAN 65			
APPROVED <i>[unclear]</i>	22 JAN 65			
APPROVED <i>W. [unclear]</i>	1/14/65	CODE IDENT NO	SIZE	DRAWING NO.
MIT			C	2004039
APPROVED <i>[unclear]</i>	1/14/65	DATE	SCALE 5/1	SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .005 \pm — DO NOT SCALE THIS DRAWING	
MATERIAL SEE NOTE 2	
NEXT ASSY	USED ON
APPLICATION	

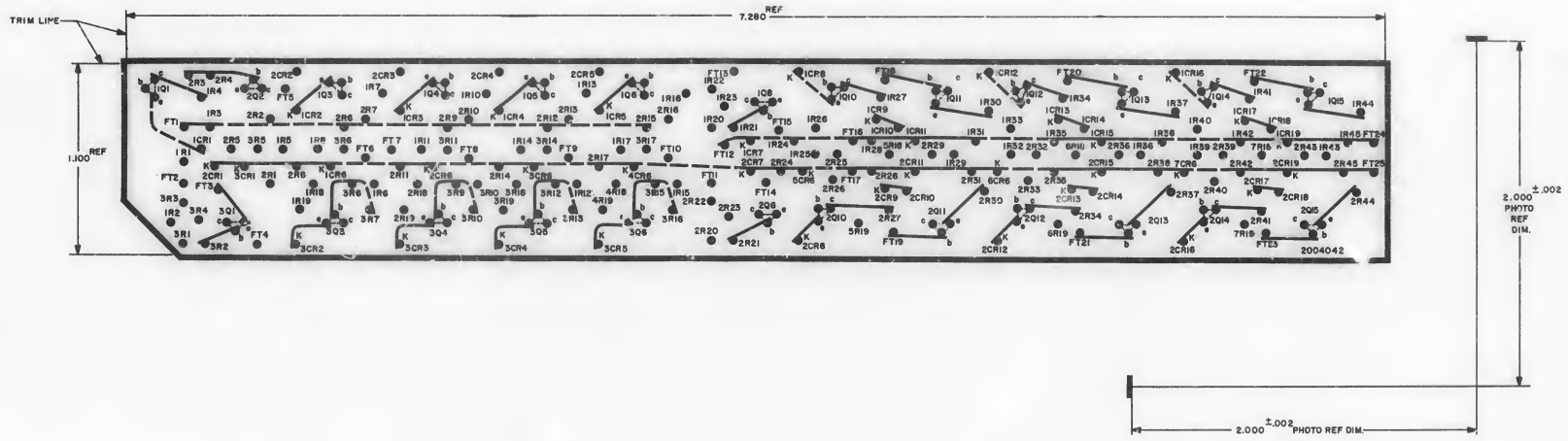


- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: FILM .006/.008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IA, CLASS 2, STYLE 1A
 3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INHURE DIMENSIONAL STABILITY
 4. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
 5. CUT TO WITHIN .010 OF TRIM LINE
 6. .040, .050 DIA HOLE
 7. BROKEN LINE DPHOTES SLEEVING
 8. APPLY FIND NO. 2 TO FAR SIDE OF FIND NO. 1

AR 100334		ADHESIVE		1	
2004040-001		INSULATOR A		2	
EXT	INST	NONADHESIVE OR		FR	
-011	DESCRIPTION NO.	DISCRIPTION		NO.	
M1T INSTRUMENTATION LAB TEST		LIST OF MATERIALS MANNED SPACECRAFT CENTER			
DRAWN: <i>[Signature]</i> CHECKED: <i>[Signature]</i> APPROVED: <i>[Signature]</i> APPROVED: <i>[Signature]</i>		INSULATOR A ASSY PHOTOGRAPHIC MASTER CURRENT SWITCH MODULE			
MATERIAL SEE NOTE 2		COOK BOAT NO. DATE E			
2003026 NEXT ASSY USED ON APPLICATION		DOWNSIDE NO. 2004040 SHEET 1 OF 1			

6

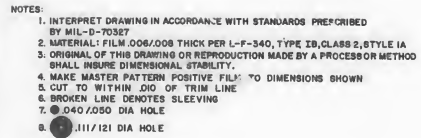
REV	DATE	DESCRIPTION	BY	CHK	DATE	APPROVED
1						



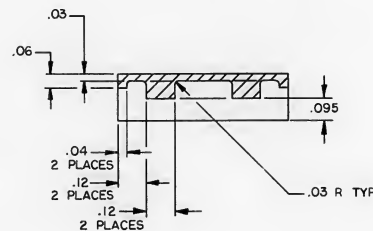
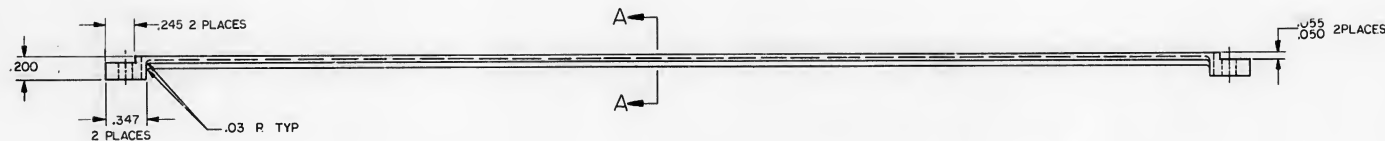
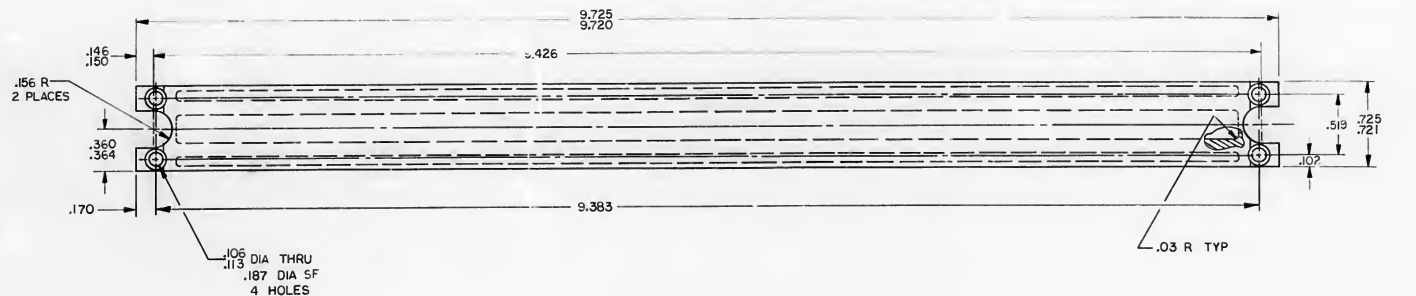
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: FILM .006/.008 THICK PER L-F-340, TYPE IB, CLASS "B" STYLE IA
 3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY.
 4. BROKEN LINE DENOTES SLEEVING
 5. MAKE MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
 6. CUT TO WITHIN .010 OF TRIM LINE
 7. Ø .250/.090 DIA HOLE

2003027 NEXT ASSY APPLICATION		SEE NOTE 2	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN µF RESISTOR VALUES ARE IN OHMS TOLERANCES ON FACTORS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING	M I T INSTRUMENTATION LAB CAMPBELL, MASS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	INSULATOR A PHOTOGRAPHIC MASTER STRAND SELECT MODULE	CODE IDENT NO 2004042	DRAWING NO 2004042	SCALE 4/1	SHEET 1 OF 1
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2004042



(4) (5)		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION		(6) (7)	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS (100%) .5 .1 .05 .025 0 TO NOT SCALE THIS DRAWING				LIST OF MATERIALS M1T INSTRUMENTATION LAB CANNON, MISS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY <i>W. J. [Signature]</i> <i>WJL</i> CHECKED BY <i>W. J. [Signature]</i> <i>WJL</i> APPROVED BY <i>W. J. [Signature]</i> <i>WJL</i> DATE <i>11/1/64</i>				INSULATOR B PHOTOGRAPHIC MASTER STRAND SELECT MODEL			
MATERIAL SEE NOTE 2				(8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)			
2003027		USED ON		(101) (102) (103) (104) (105) (106) (107) (108) (109) (110) (111) (112) (113) (114) (115) (116) (117) (118) (119) (120) (121) (122) (123) (124) (125) (126) (127) (128) (129) (130) (131) (132) (133) (134) (135) (136) (137) (138) (139) (140) (141) (142) (143) (144) (145) (146) (147) (148) (149) (150) (151) (152) (153) (154) (155) (156) (157) (158) (159) (160) (161) (162) (163) (164) (165) (166) (167) (168) (169) (170) (171) (172) (173) (174) (175) (176) (177) (178) (179) (180) (181) (182) (183) (184) (185) (186) (187) (188) (189) (190) (191) (192) (193) (194) (195) (196) (197) (198) (199) (200)		DRAWING NO. 2004043	
NEXT SIZE		USED ON		(201) (202) (203) (204) (205) (206) (207) (208) (209) (210) (211) (212) (213) (214) (215) (216) (217) (218) (219) (220) (221) (222) (223) (224) (225) (226) (227) (228) (229) (230) (231) (232) (233) (234) (235) (236) (237) (238) (239) (240) (241) (242) (243) (244) (245) (246) (247) (248) (249) (250) (251) (252) (253) (254) (255) (256) (257) (258) (259) (260) (261) (262) (263) (264) (265) (266) (267) (268) (269) (270) (271) (272) (273) (274) (275) (276) (277) (278) (279) (280) (281) (282) (283) (284) (285) (286) (287) (288) (289) (290) (291) (292) (293) (294) (295) (296) (297) (298) (299) (300)		DATE 11/1/64	
APPLICATION		(301) (302) (303) (304) (305) (306) (307) (308) (309) (310) (311) (312) (313) (314) (315) (316) (317) (318) (319) (320) (321) (322) (323) (324) (325) (326) (327) (328) (329) (330) (331) (332) (333) (334) (335) (336) (337) (338) (339) (340) (341) (342) (343) (344) (345) (346) (347) (348) (349) (350) (351) (352) (353) (354) (355) (356) (357) (358) (359) (360) (361) (362) (363) (364) (365) (366) (367) (368) (369) (370) (371) (372) (373) (374) (375) (376) (377) (378) (379) (380) (381) (382) (383) (384) (385) (386) (387) (388) (389) (390) (391) (392) (393) (394) (395) (396) (397) (398) (399)<					



SECTION A-A
SCALE 4/1

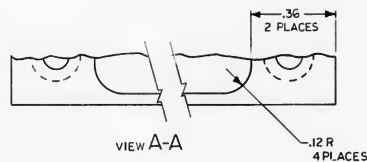
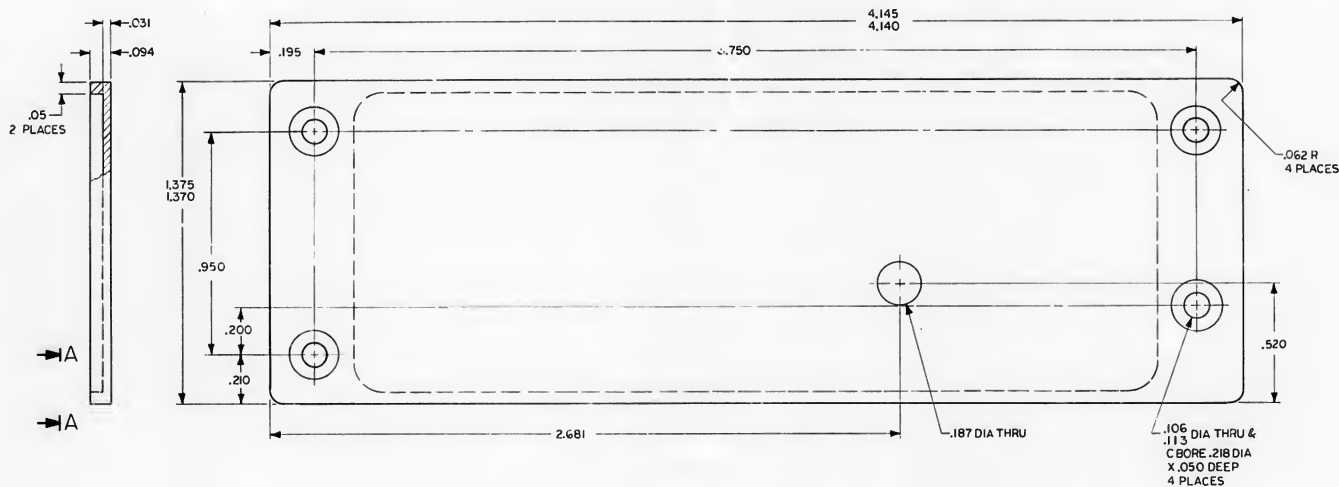
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: MAGNESIUM ZK60A-75 PER QQ-M-31, TEMP 5
 3. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
 4. REMOVE BURRS AND SHARP EDGES .005/.015
 5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .020 MAX
 6. ALL SURFACES 125 UNLESS OTHERWISE SPECIFIED
 7. IDENTIFY WITH DRAWING NO. AND REVISION PER NDI002019

2		1	
REVISIONS 19215			
SYN	ZONE	DESCRIPTION	DR CHR DATE APPROVED

[illegible]

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REVISIONS 18683						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



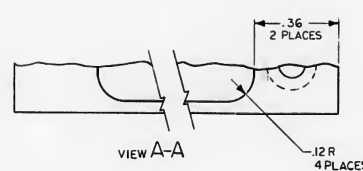
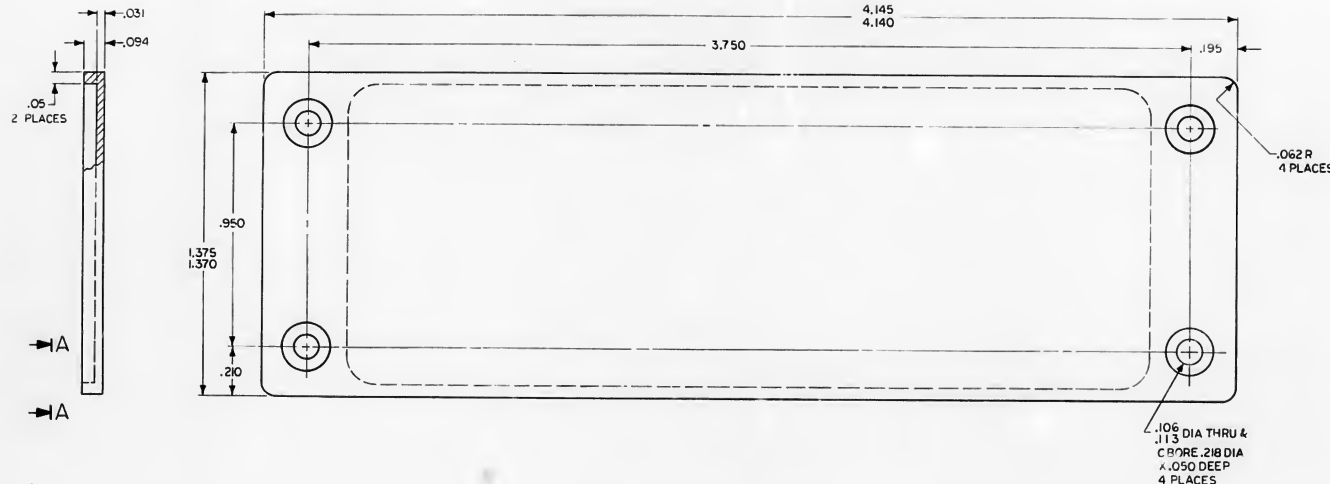
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ZK60A-T PER MIL-M-31 TEMP 5
3. REMOVE BURRS AND SHARP EDGES .005/.015
4. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
5. ALL SURFACES 125/
6. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
7. IDENTIFY WITH DRAWING NO. AND REVISION PER NDI002019

CITY REQD		PART IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO	
LIST OF MATERIALS							
M I T INSTRUMENTATION LAB CAMBRIDGE, MASS				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm .005 .001 \pm .001 DO NOT SCALE THIS DRAWING MATERIAL				COVER A OSCILLATOR MODULE			
2003036		APPROVED MIT [Signature]		CODE IDENT NO. SIZE D		DRAWING NO. 2004061	
NEXT ASSY		USED ON		DATE		SHEET 1 OF 1	
APPLICATION		MISC		SCALE 4/1			

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REVISIONS				
SYM	ZONE	DESCRIPTION	DR	CHK
DATE			APPROVED	



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ZK60A-T5 PER MIL-M-31 TEMP 5
3. REMOVE BURRS AND SHARP EDGES .005/.015
4. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
5. ALL SURFACES 125
6. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
7. IDENTIFY WITH DRAWING NO. AND REVISION PER NDI002019

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.					
LIST OF MATERIALS											
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS				MANNED SPACECRAFT CENTER HOUSTON, TEXAS							
DRAWN <i>[Signature]</i> 11/19/68				CHECKED <i>[Signature]</i> 12/1/68							
APPROVED <i>[Signature]</i> 12/1/68				APPROVED <i>[Signature]</i> 12/1/68							
APPROVED <i>[Signature]</i> 12/1/68				APPROVED <i>[Signature]</i> 12/1/68							
2003036				SEE NOTE 2							
NEXT ASSY				USED ON							
APPLICATION				DATE							
SCALE 4/1				SHEET 1 OF 1							

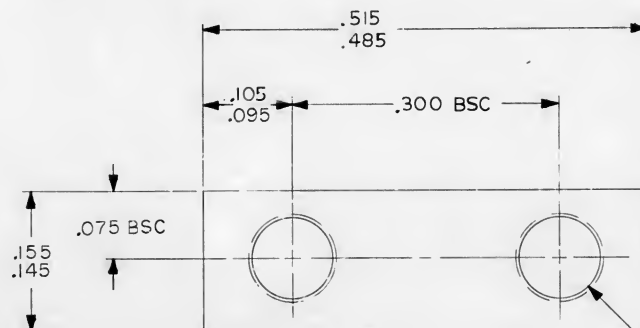
COVER B
OSCILLATOR MODULE

DRAWING NO.
2004062

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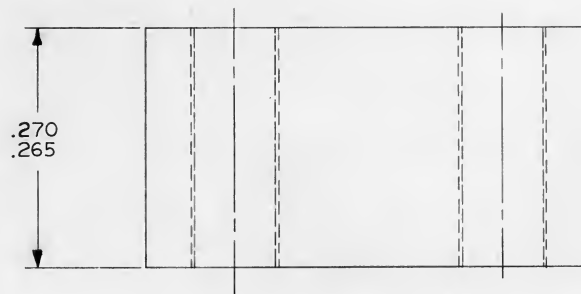
REVISIONS 20043

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



NO. 2 (.086) 56UNC-2B THRU 2 HOLES

Ø.010 DIA



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: 6061-T6-AL PER QQ-A-250/II, TEMP 6
3. FINISH: ANODIZE PER MIL-A-8625 TYPE II CLEAR
4. REMOVE BURRS AND SHARP EDGES.005/015
5. ALL SURFACES ☒ 25
6. IDENTIFY WITH DRAWING NO AND REVISION PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>Richard Jones</i> 16 MAR 65		STANDOFF FIXED MEMORY MODULE	
CHECKED <i>Richard Jones</i> 21 MAR 65			
APPROVED <i>Richard Jones</i> 27 MAY 65			
APPROVED <i>Richard Jones</i> 3 June 65		CODE IDENT NO. 80230	
APPROVED <i>W. J. Jones</i> 6/1/65		SIZE C	
APPROVED <i>W. J. Jones</i> 6/1/65		DRAWING NO. 2004071	
DATE		SCALE 10/1	
		SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm — \pm — DO NOT SCALE THIS DRAWING	
MATERIAL	
SEE NOTE 2	
3003053	
NEXT ASSY	USED ON
APPLICATION	

VIEW A-A

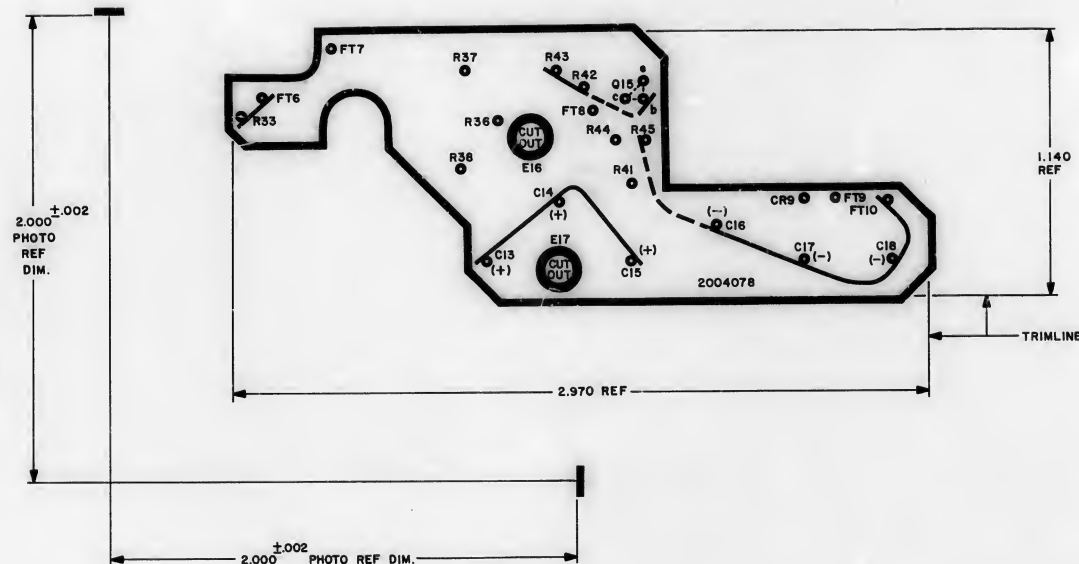
.625

.161



.035 X 45°
4 PLACES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
M I T INSTRUMENTATION LAB CAMBRIDGE MASS DRAWN BY <i>W. Papp</i> DATE <i>10-2-68</i> CHECKED BY <i>W. Papp</i> APPROVAL <i>W. Papp</i> DATE <i>10-2-68</i> APPROVAL <i>W. Papp</i> DATE <i>10-2-68</i>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS <h1>CONNECTOR PLATE</h1> <h2>FIXED MEMORY MODULE</h2>	
NASA APPROVAL <i>W. Papp</i> MIT APPROVAL <i>W. Papp</i>		CODE IDENT NO. SIZE 80230 D	NASA DRAWING NO. 2004075
		SCALE 2/1 WT	SHEET 1 OF 1

2		1	
REVISIONS 17758			
SYM	ZONE	DESCRIPTION	DR CHR DATE APPROVED
A		REVISED PER TDRR 20951	KCH EAC 14 JUL 45 [Signature]



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. CUT TO WITHIN .010 OF TRIMLINE
4. MAKE MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
5. MATERIAL: FILM .006/.008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE 1B, CLASS 2, STYLE 1A
6.  .040/.050 DIA HOLE
7. BROKEN LINE DENOTES SLEEVING
8.  .20/.22 DIA HOLE

		QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO.	
				LIST OF MATERIALS					
		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
		DRAWN <u>Ed Penner</u> <u>ESG/CS</u> CHECKED <u>Ed Penner</u> <u>ESG/CS</u> APPROVED <u>J. H. Kelly</u> <u>ESG/CS</u> APPROVED <u>Ed Penner</u> <u>ESG/CS</u>		INSULATOR C PHOTOGRAPHIC MASTER POWER SUPPLY					
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm \pm \pm DO NOT SCALE THIS DRAWING							
		MATERIAL							
2003056		SEE NOTE 5		APPROVED <u>Ed Penner</u> <u>ESG/CS</u> APPROVED <u>Ed Penner</u> <u>ESG/CS</u>		CODE IDENT NO 80230		DRAWING NO. 2004078	
NEXT ASSY		USED ON		DATE		SCALE 4/1		SHEET 1 OF 1	
APPLICATION									

4

3

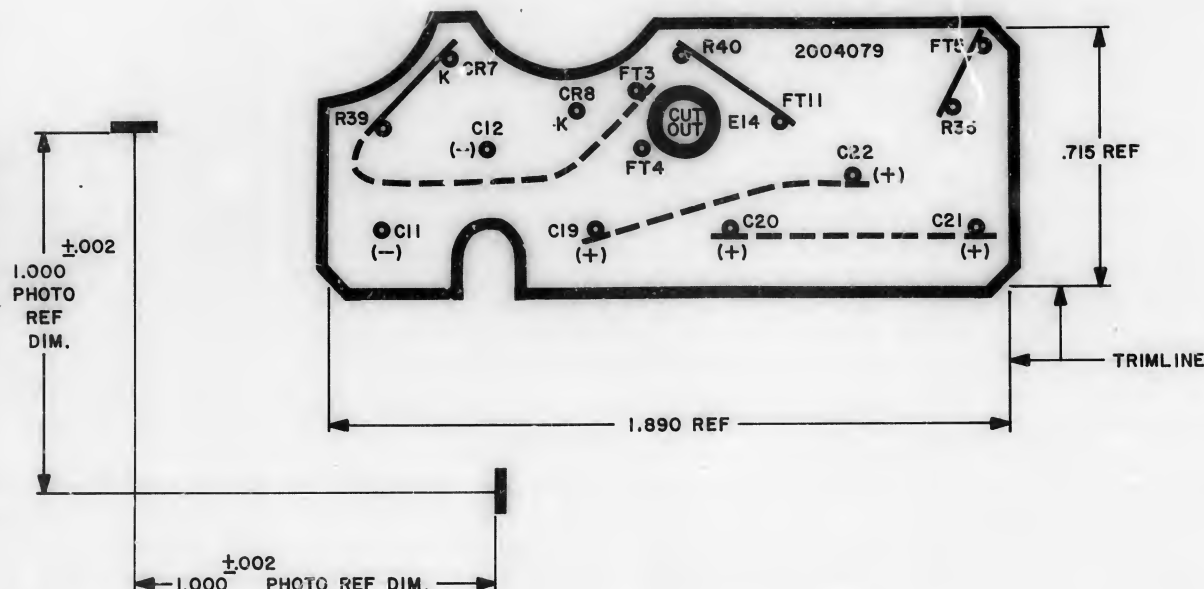
2

1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORWARDED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS AN IMPLICIT LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEY, IN ANY MANNER OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREIN.

REVISIONS 19758

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 20951	EP	LPC	10 AUG 65	WJW



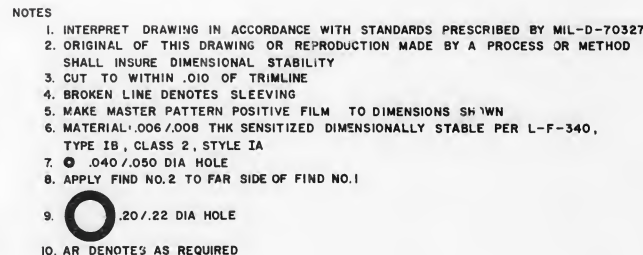
NOTES

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
- CUT TO WITHIN .010 OF TRIMLINE
- MAKE MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
- BROKEN LINE DENOTES SLEEVING
- MATERIAL FILM .006/.008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE IA
- .040/.050 DIA HOLE
- .20/.22 DIA HOLE

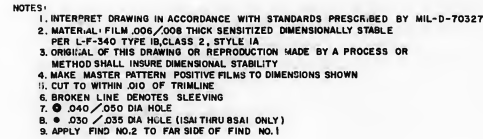
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm _____ \pm _____ \pm _____ DO NOT SCALE THIS DRAWING
		MATERIAL
2003056		SEE NOTE 6
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS					
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN	Ed Powers	220665	INSULATOR D PHOTOGRAPHIC MASTER POWER SUPPLY		
CHECKED	G. Lindstrom	26 May 65			
APPROVED	J. M. Smith	26 May 65			
APPROVED	Robert C. Wall	1 June 65			
APPROVED MIT	M. Murley	6-2-65			
APPROVED MSC	M. Murley	6-2-65	CODE IDENT NO.	SIZE	DRAWING NO.
		80230	C	2004079	
DATE		SCALE	4/1	SHEET	OF

REVISIONS 1975						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TORR 20951	KCH	EAR	10/2/63	[Signature]
B		REVISED PER TORR 22564	NFB	EPK		WJ
C		REVISED PER TORR 24192	OSP	EPK	2/7/65	WJ

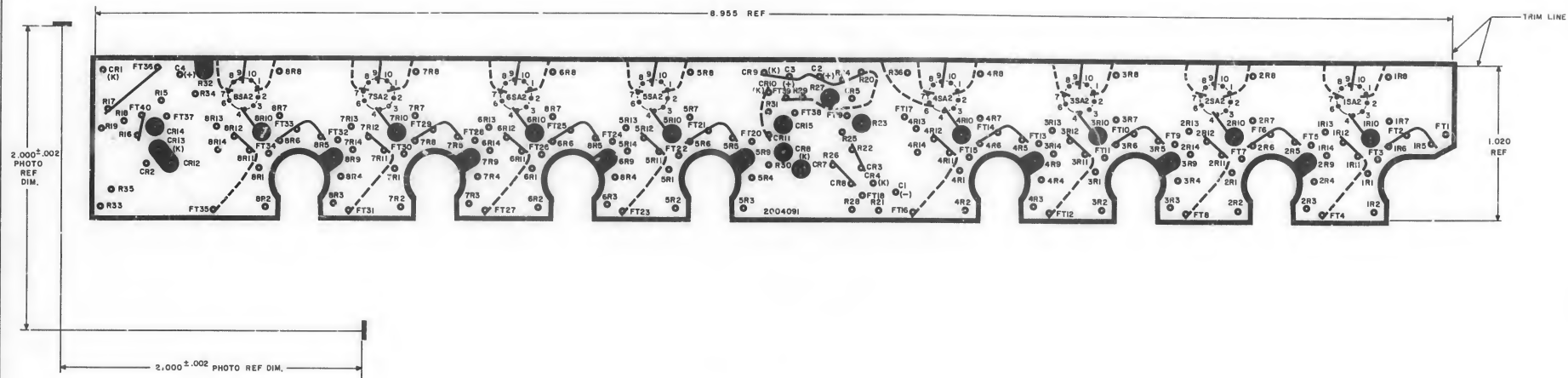


AR	1006318	ADHESIVE	2
I	2004081-001	INSULATOR B	
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIN NO.
-001		LIST OF MATERIALS	
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN Ed Powers 12-6-65 CHECKED R. Smith 12-6-65 APPROVED J. M. Kelly 12-6-65 APPROVED J. M. Kelly 12-6-65		INSULATOR B PHOTOGRAPHIC MASTER POWER SUPPLY	
APPROVED MIT	M. M. Kelly 12-6-65	CODE IDENT NO	DRAWING NO.
		80230	2004081
APPROVED MSC	M. M. Kelly 12-6-65	D	
		DATE	SHEET 1 OF






AN 100638	ADHESIVE	2
2004090-001	INSULATOR A	
CITY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
011		FIN NO
LIST OF MATERIALS		
M I T INSTRUMENT LAB CAMBRIDGE, MASS	MANNED SPACECENTER HOUSTON, TEXAS	
GRADING <i>8/16/68</i>	INSULATOR A, ASSY	
APPROVED <i>W. J. Hall</i>	PHOTOGRAPHIC MASTER	
APPROVED <i>W. J. Hall</i>	SIZE AMPLIFIER MODULE	
APPROVED <i>W. J. Hall</i>	CODE IDENT NO	SIZE
MIT	80230	2004090
APPROVED <i>W. J. Hall</i>	ME	SCALE 4
DATE		Sheet 1 of 1

	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES APACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMAL AN DO NOT SCALE THIS DRAWING MATERIAL
2003043	SEE NOTE 2
NEXT ASSY USE ON	
APPLICATION	



NOTES :

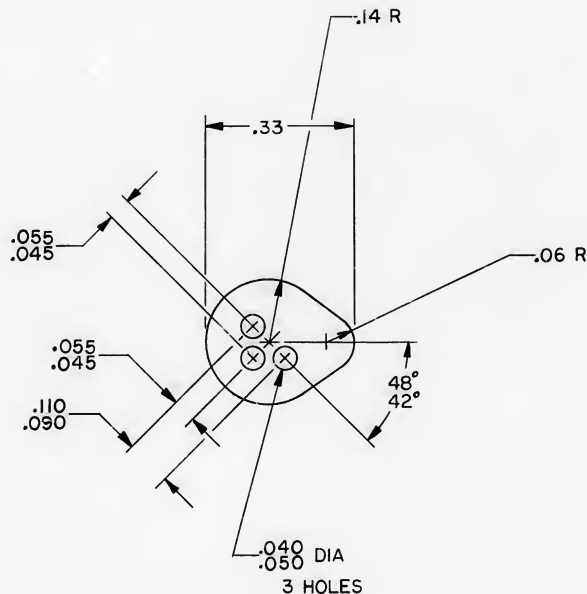
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: FILM .006 / .008 THICK SENSITIZED DIMENSIONALLY STABLE
PER LR-F340 TYPE IB, CLASS 2, STYLE IA
3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR
METHOD SHALL INSURE DIMENSIONAL STABILITY
4. NAME MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
5. CUT TO WITHIN .010 OF TRIMLINE
6. BROKEN LINE DENOTES SLEEVING
7.  .040 / .050 DIA HOLE
8.  .030 / .035 DIA HOLE (IS42 THRU 8SA2 ONLY)
9.  .120 / .130 DIA HOLE (14 PLACES)

QTY #00	PART OR IDENTIFYING NO	NONINCULCATED OR DESCRIPTION	FIND NO
LIST OF MATERIALS NIT INSTRUMENTATION LAB CHAMBERMAN DRAWN BY <i>Stephen</i> 1/19/65 CHECKED BY <i>Robert</i> 1/20/65 APPROVED BY <i>Robert</i> 1/20/65 APPROVED <i>Robert</i> 1/20/65 NOT SCALE THIS DRAWING MATERIAL:		MASTER'S SPACECRAFT CENTER HOUSTON TEXAS INSULATOR B PHOTOGRAPHIC MASTER SENSE AMPLIFIER MODULE	
2003043	USE ON	COOK IDENT NO 80230	DRAWING NO 2004091
NEST ASY	APPLICATION	DATE 4/71	SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT HAS FORMULATED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER ENDORSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 19687

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

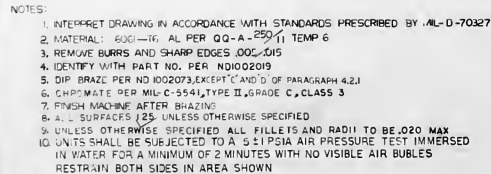


NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: FILM, .006/.008 THICK, POLYETHYLENE TEREPHTHALATE PER L-P-00519, TYPE II, CLASS I
3. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIN NO
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>agp</i>	13 Apr 65	INSULATOR		
CHECKED <i>agp</i>	13 Apr 65			
APPROVED <i>agp</i>	13 Apr 65			
APPROVED <i>agp</i>	13 Apr 65			
APPROVED MIT	DATE	CODE IDENT NO.	SIZE	DRAWING NO.
APPROVED MSC	DATE	80230	C	2004092
SCALE 5/1		SHEET 1 OF 1		

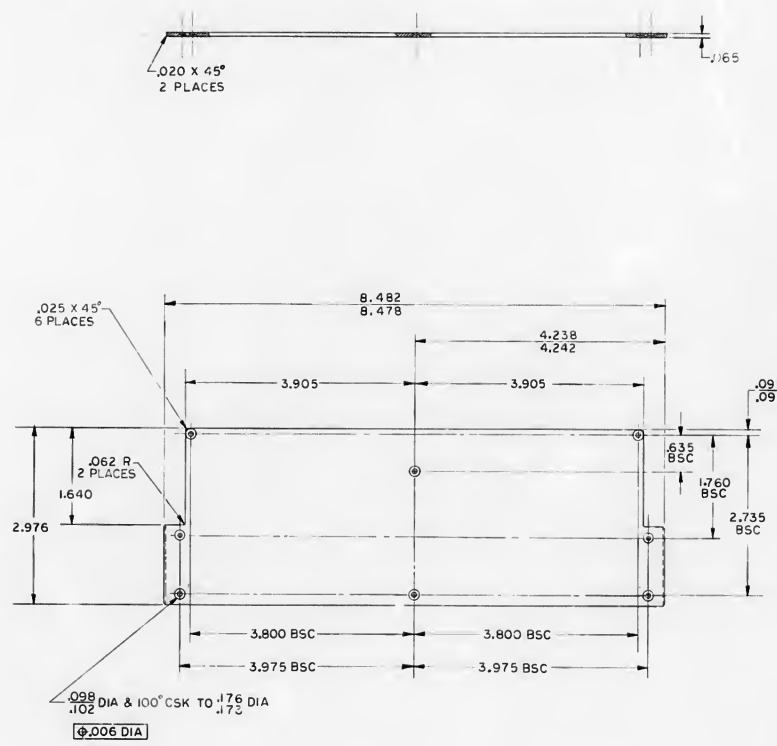
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .01 \pm — DO NOT SCALE THIS DRAWING	
MATERIAL	
2003035	SEE NOTE 2
NEXT ASSY	USED ON
APPLICATION	

[illegible]

	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS 0.01 0.03 DO NOT SCALE THIS DRAWING
	MATERIAL
2003053	SEE NOTE 2
NEXT ASSY	USED ON
APPLICATION	

1

REVISIONS 20043							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	

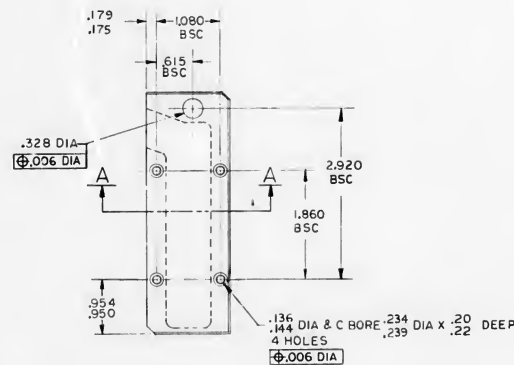


NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327
2. REMOVE BURRS AND SHARP EDGES .005/.015
3. ALL SURFACES .125
4. MAT'L: 6061-T6 AL PER QQ-A-250/11, TEMP 6
5. CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
6. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND
RADI TO BE .010 MAX
7. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FINO NO.	
				LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES $\pm .005$ $\pm 1^\circ$ DO NOT SCALE THIS DRAWING MATERIAL				COVER INTERCONNECTION HEADER FIXED MEMORY			
DRAWN <i>J. A. Ziegler</i> DATE <i>10/10/65</i> CHECKED <i>J. A. Ziegler</i> DATE <i>10/10/65</i> APPROVED <i>J. A. Ziegler</i> DATE <i>10/10/65</i> APPROVED <i>John D. Hall</i> DATE <i>10/10/65</i>				CODE IDENT NO. SIZE DRAWING NO. 80230 D 2004107			
APPROVED MIT <i>W. J. Taylor</i> DATE <i>10/10/65</i> APPROVED MSC <i>John D. Hall</i> DATE <i>10/10/65</i>				SCALE 1/1 SHEET 1 OF 1			
2003059		SEE NOTE 4					
NEXT ASSY		USED ON					
APPLICATION							

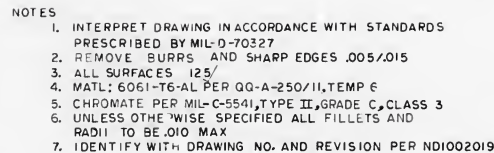
REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 20617	CS			



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327
2. REMOVE BURRS AND SHARP EDGES .005/.015
3. ALL SURFACES 125
4. MATL: 6061-T6-AL PER QQ-A-250/11,TEMP 6
5. CHROMATE PER MIL-C-5541,TYPE II, GRADE C, CLASS 3
6. UNLESS OTHERWISE SPECIFIED ALL FILETS AND
RADI TO BE .010 MAX
7. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

		QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO.	
		LIST OF MATERIALS							
		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		DRAWN <i>J. A. F. J. 2/10/61</i> BY <i>MMMS</i>				COVER CONNECTOR B41 FIXED MEMORY			
		CHECKED <i>[Signature]</i> <i>2/10/61</i>							
		APPROVED <i>[Signature]</i> <i>2/10/61</i>							
		APPROVED <i>[Signature]</i> <i>2/10/61</i>							
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMAL VALUES ARE IN RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS & DECIMALS ANGLES = $\pm .01$ = 5° DO NOT SCALE THE DRAWING							
		MATERIAL							
2003059		SEE NOTE 4				CODE IDENT NO		DRAWING NO.	
NEXT ASY USED ON						80230		2004108	
APPLICATION						D			
		APPROVED MSC		DATE		SCALE 1/1		SHEET 1 OF	

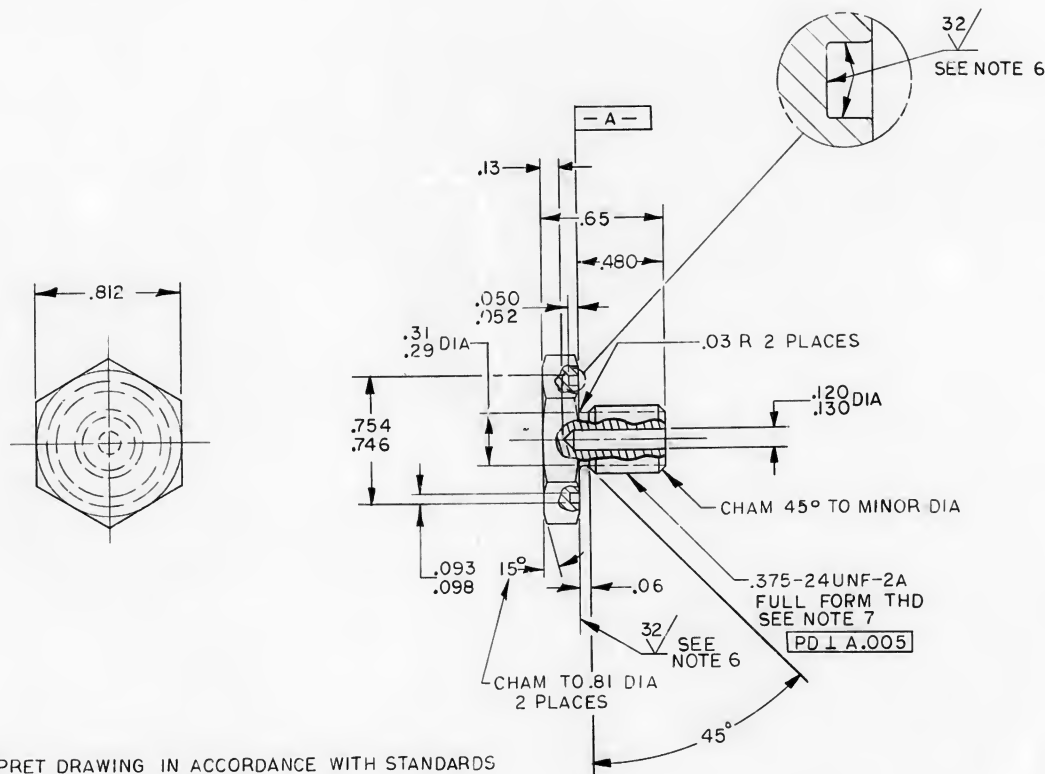
REVISIONS 20043						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 20617	PJS			WJC



CITY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO.	
				LIST OF MATERIALS			
		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		DRAWN <i>G. O. S. 10/2/60</i> <i>W. J. P. 10/2/60</i> CHECKED <i>W. J. P. 10/2/60</i> APPROVED <i>W. J. P. 10/2/60</i>		COVER CONNECTOR B42 FIXED MEMORY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS . DECIMALS ANGLES \pm .05 .10 .5° DO NOT SCALE THIS DRAWING		MATERIAL 2003059 NEXT ASSY USED ON APPLICATION		DRAWING NO. 2004109			
		APPROVED MIT <i>W. J. P. 10/2/60</i> APPROVED MSC <i>W. J. P. 10/2/60</i>		CODE IDENT NO 80230		SCALE 1/1	
		DATE		SHEET 1 OF 2			

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE, OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, NOR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA TO BE REPRODUCED BY ANY PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 2/1/66				
SYM	ZONE	DESCRIPTION	DR	CHK



NOTES

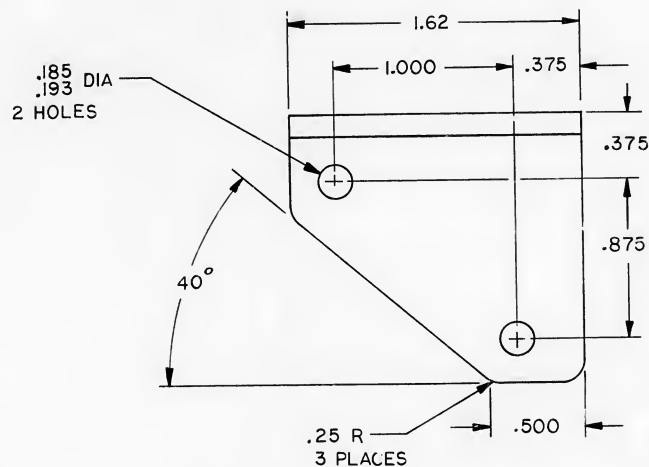
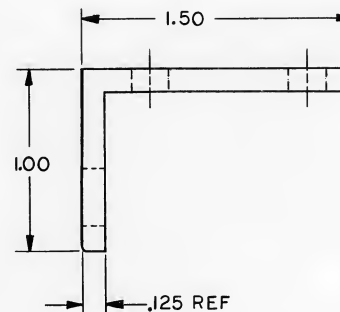
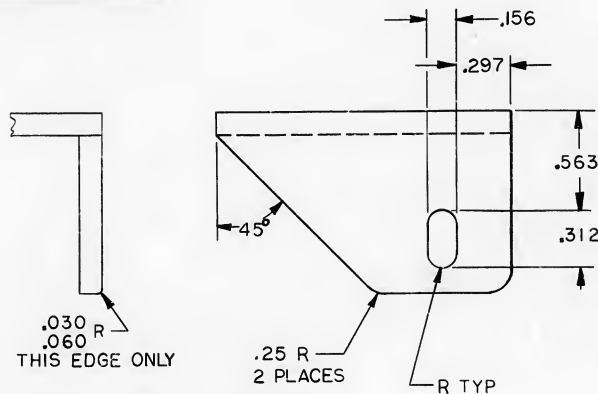
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: CRES PER QQ-S-763, CLASS 303, COND A
3. PASSIVATE PER MIL-F-14072, FINISH E300 TYPE II
4. REMOVE BURRS AND SHARP EDGES .005/.015
5. ALL SURFACES 125 UNLESS OTHERWISE SPECIFIED
6. SURFACES SHALL BE FREE FROM LONGITUDINAL AND SPIRAL TOOL MARKS
7. THREADS SHALL CONFORM TO MIL-S-7742

QTY REQ		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>E.W. Johnson</i> 4/22/65		CHECKED <i>R. Williams</i> 5/1/65		PLUG MACHINE THREAD		DRAWING NO. 2004110	
APPROVED <i>E.W. Johnson</i>		APPROVED <i>R. Williams</i>					
APPROVED MIT <i>W. Johnson</i> 2/1/66		DATE 2/1/66		CODE IDENT NO. 80230		SIZE C	
APPROVED MSC <i>R. Williams</i>		DATE 2/1/66		SCALE 2/1		SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES $\pm .005 \pm .01 \pm 2^\circ$ DO NOT SCALE THIS DRAWING	
MATERIAL SEE NOTE 2	
2003100	APPLICATION
NEXT ASSY	USED ON

I	SEE CHART	DIODE, ZENER				
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.			
LIST OF MATERIALS						
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS				
DRAWN	<i>Jo Munson</i>	26 APR 65	DIODE, ZENER (FLIGHT QUALIFIED)			
CHECKED	<i>R. R. R. R.</i>	12 MAY 65				
APPROVED	<i>J. D. H. H.</i>	18 MAY 65				
APPROVED	<i>E. C. H. H.</i>	18 MAY 65				
APPROVED, MIT	<i>M. G. M. M.</i>	18 MAY 65	CODE IDENT NO.	SIZE	DRAWING NO.	
APPROVED, MSC	<i>P. M. M. M.</i>	5/18/65	8023C	C	2004112	
	DATE	SCALE	NONE		SHEET	OF

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: J25 THK 6063-T5 ALUMINUM ALLOY, EXTRUDED ANGLE PER QQ-A-274
3. REMOVE BURRS AND BREAK SHARP EDGES .005/015
4. CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
5. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES $\pm .005 \pm .01 \pm .02$ DO NOT SCALE THIS DRAWING	
MATERIAL	
2003100	SEE NOTE 2
NEXT ASSY	USED ON
APPLICATION	

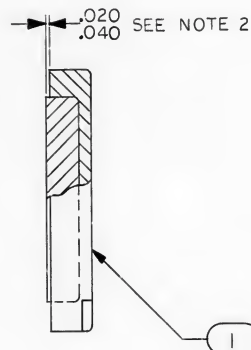
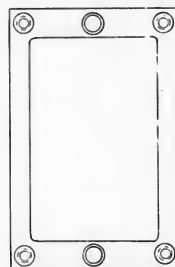
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN	<i>W. J. G.</i>	<i>2/26/65</i>	BRACKET CABLE AGC	
CHECKED	<i>W. J. G.</i>	<i>2/26/65</i>		
APPROVED				
APPROVED	<i>W. J. G.</i>	<i>2/26/65</i>		
APPROVED	<i>W. J. G.</i>	<i>2/26/65</i>		
APPROVED MIT		CODE IDENT NO.	SIZE	DRAWING NO.
APPROVED MSC		80230	C	2004113
DATE		SCALE	2/1	SHEET
				OF

4 3 2 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 21166

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



NOTES

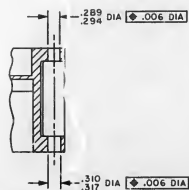
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ENCAPSULATE WITH SILASTIC RUBBER PER ND1002009 METHOD C OR D

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING
		MATERIAL
2003100		
NEXT ASSY	USED ON	
APPLICATION		

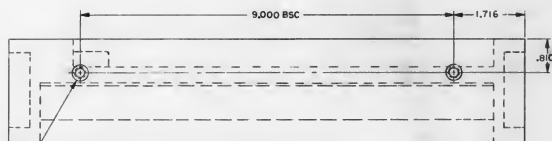
1	2004114	COVER, TEST CONNECTOR	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>J. J. J.</i>	2500-63	COVER, POTTED TEST CONNECTOR AGC	
CHECKED <i>R. J. J.</i>	<i>R. J. J.</i>		
APPROVED			
APPROVED <i>C. C. Hall</i>	20/1/66		
APPROVED MIT <i>W. J. J.</i>	27/6/68	CODE IDENT NO. 80230	SIZE C
APPROVED MSC <i>B. C. J.</i>	7/2/68	DRAWING NO. 2004115	
	DATE	SCALE 1/1	SHEET 1 OF 1

4
— C'BORE .331 DIA X .610 DEEP
CSK 82° X .390 DIA
TAP 3/8-16UNC-2B X .438 MIN
FULL THD 2 HOLES
◆ .014 DIA

VIEW G-G

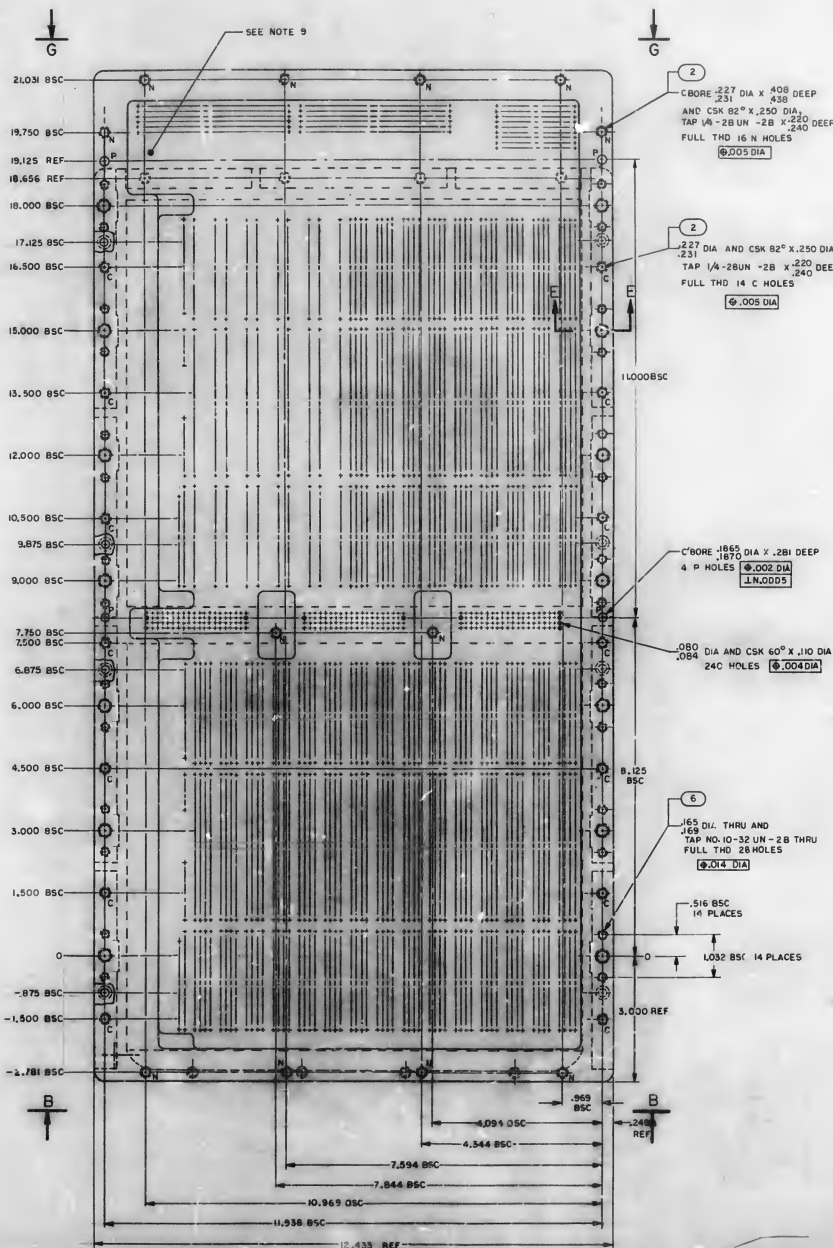


SECTION E-E
14 PLACES



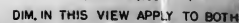
VIEW B-B

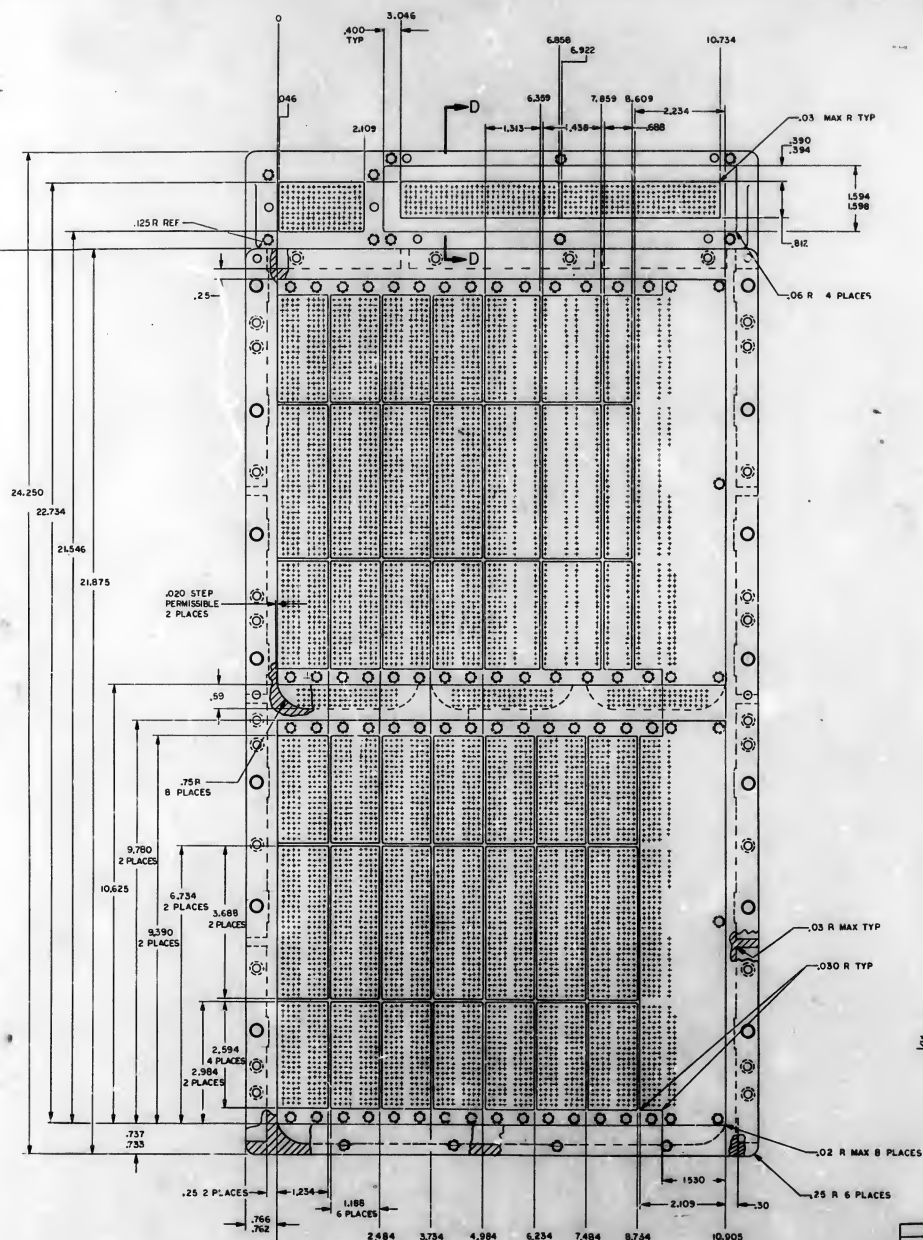
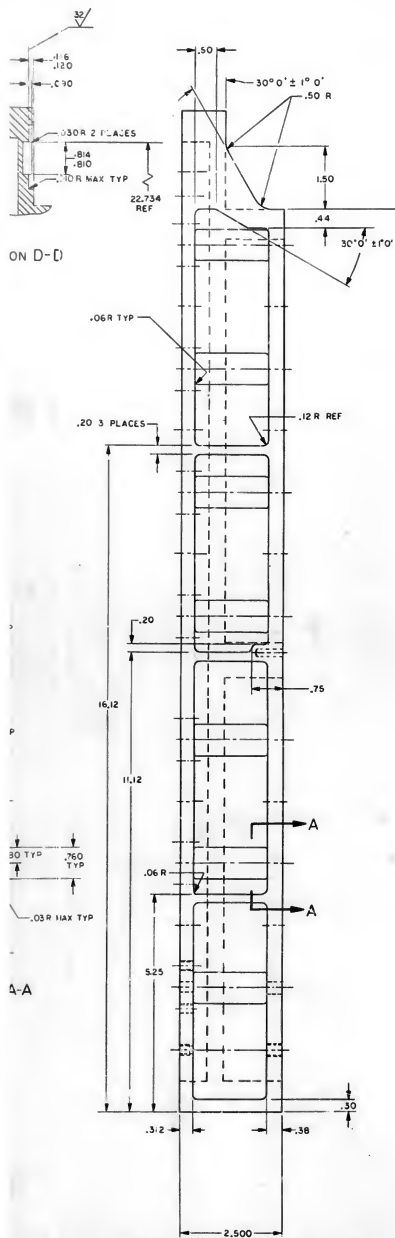
CBORE .331 DIA X .610 DEEP CSK 82° X .390 DIA
TAP 3/8-16UNC-2B X .438 MIN FULL THD 2 HOLES
Ø.014 DIA



NOTES

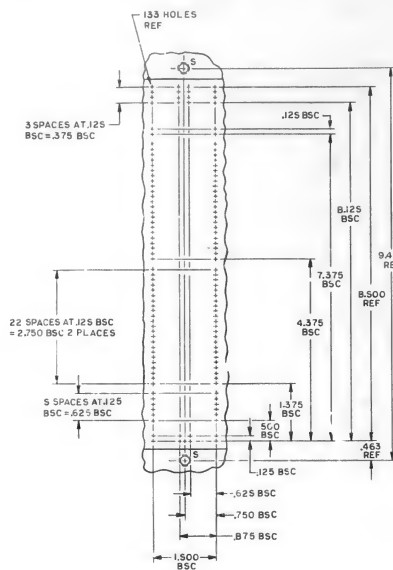
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-7527
2. MAT'L 6061-T6 AL PER Q-A-250/11, TEMP T6
3. CHMATE PER Q-C-5541, TYPE II, GRADE C, CLASS 3
4. BEFORE INSTALLING FINO NO.2, 3, 4, 5, 6, AND 7
5. ALL SURFACES ~~BE~~ UNLESS OTHERWISE SPECIFIED
6. REMOVE BURRS AND SHARP EDGES .005/1.0
7. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADIUS .125
8. INITIAL FINO NO.2,3,4,5 AND 6 PER Q-D-10219
9. INSTALL FINO NO. 7 PER AS 360 AND REMOVE DRIVING TANG
10. COAT THREADS OF FINO NO. 2, 3, 4, 5, 6, AND 7 WITH P-P-8598, COAT YELLOW
11. IDENTIFY WITH PART NO. Q-D-102019 AND SERIALIZE PER Q-D-100223 WHERE SHOWN



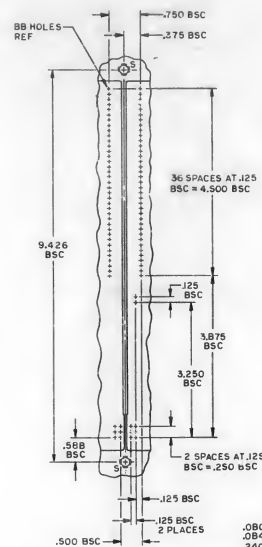


REVISED 1927					
SN	DATE	DESCRIPTION	SN	DATE	APPROVED
A		REVISED PER TDAR 20205			
B		REVISED PER TDAR 21251			
C		REVISED PER TDAR 22158			
D		REVISED PER TDAR 22617			
E		REVISED PER TDAR 23147			

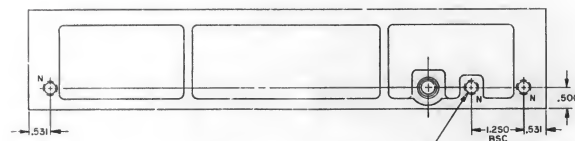
1 2 3 4 5 6 7 8 9 10 11 12		13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 52	
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DETAIL A

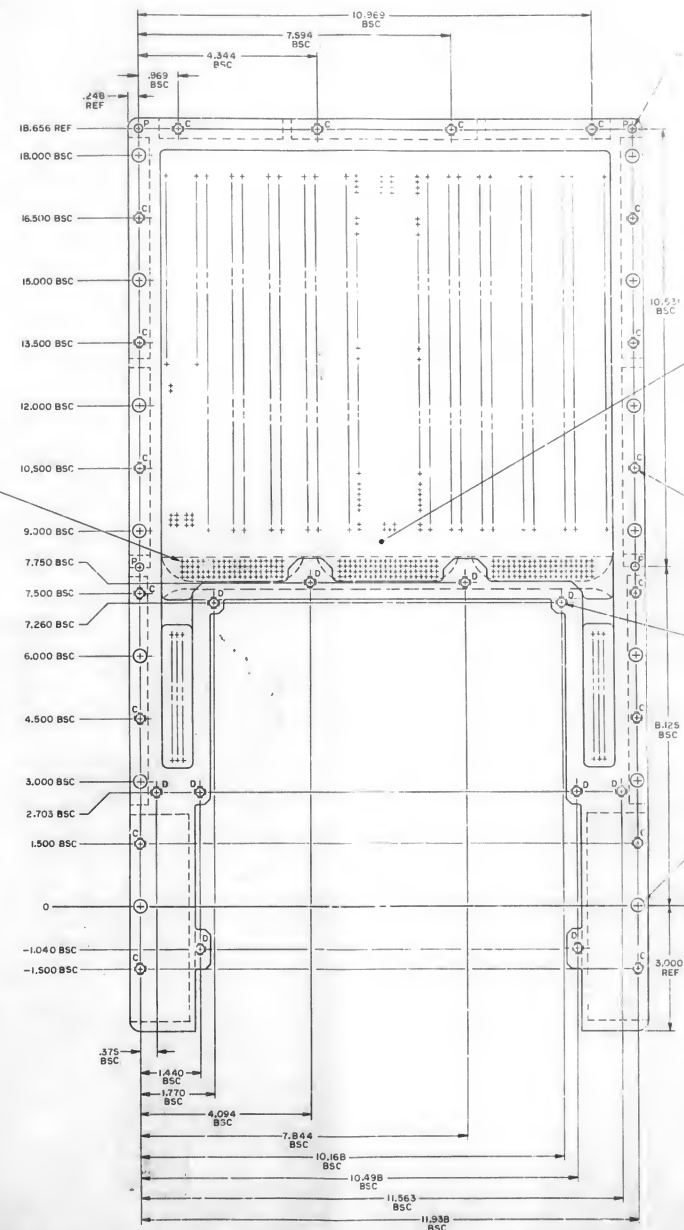


DETAIL B



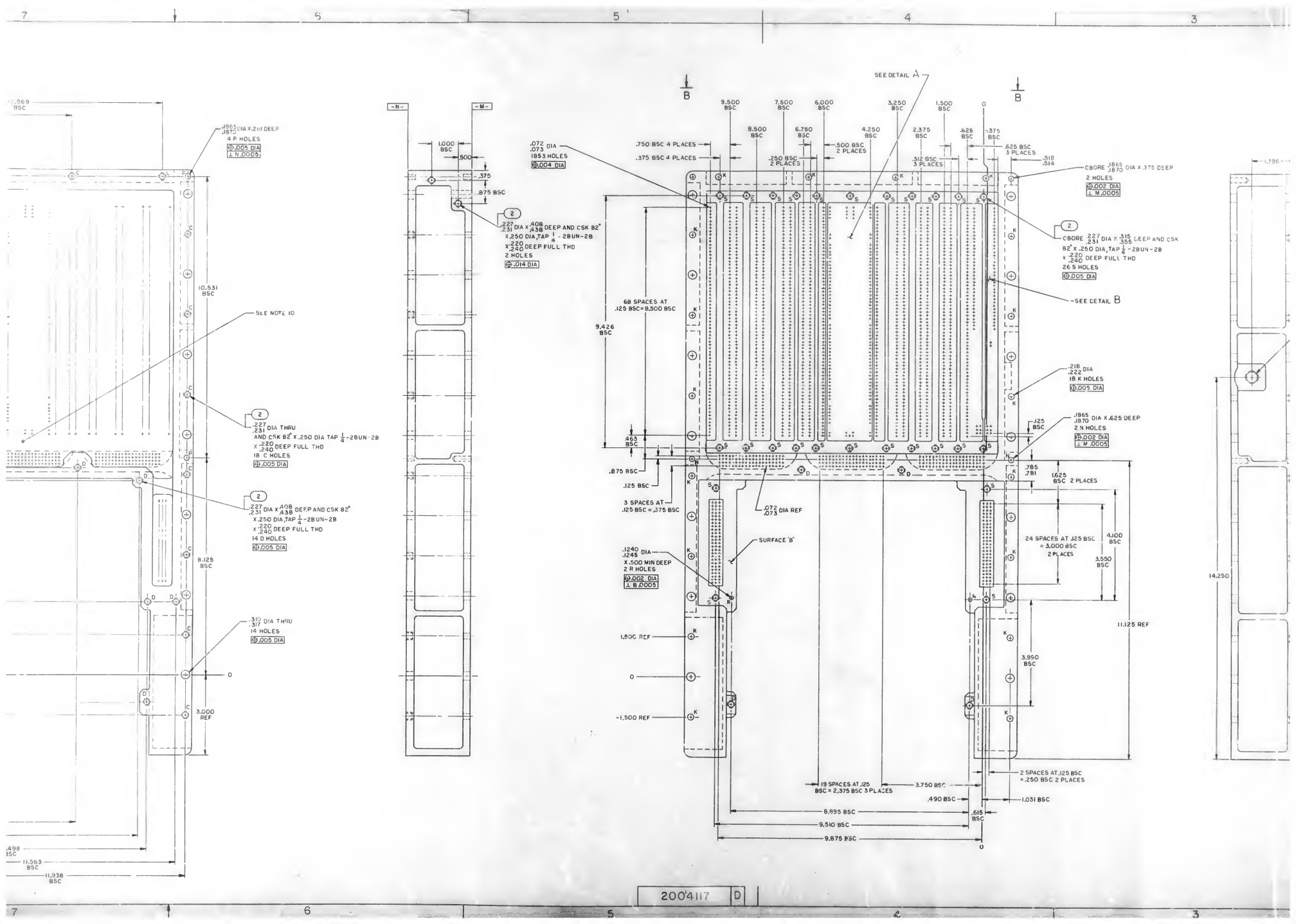
VIEW B-B

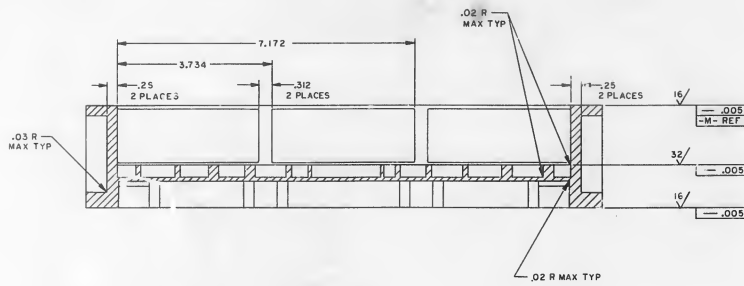
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: T6-AL P 60-4-250/H TEMP 6
 3. CHROMIUM PER MIL-C-1541, TYPE II, GRADE C, CLASS 3, BEFORE INSTALLING FND NO. 2, 3 AND 4
 4. ALL SURFACES 125/100 UNLESS OTHERWISE SPECIFIED
 5. REMOVE BURRS AND SHARP EDGES 005/015
 6. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .125
 7. INSTALL FND NO. 2, 3 AND 4 PER NDI002121
 8. COAT THREADS OF FND NO. 2, 3 AND 4 WITH MIL-P-8885, COLOR YELLOW
 9. INSTALL FND NO. 4 .000/015 BELOW SURFACE
 10. IDENTIFY WITH PART NO. PER NDI002019 AND SERIALIZE PER NDI002023 WHERE SHOWN



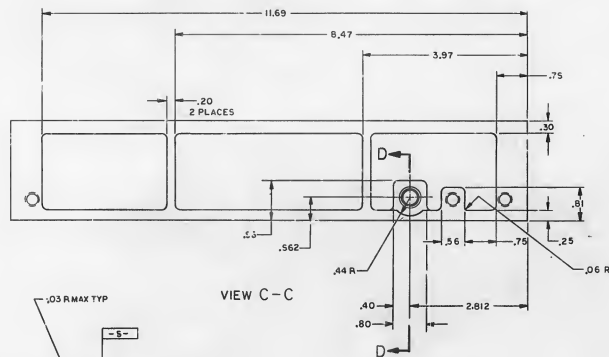
2004117

D

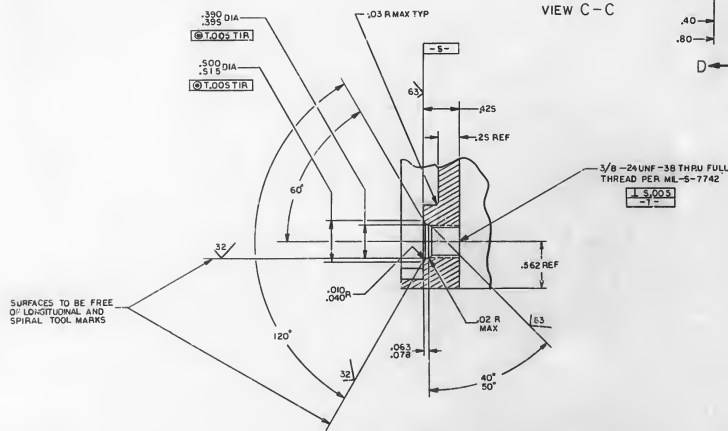




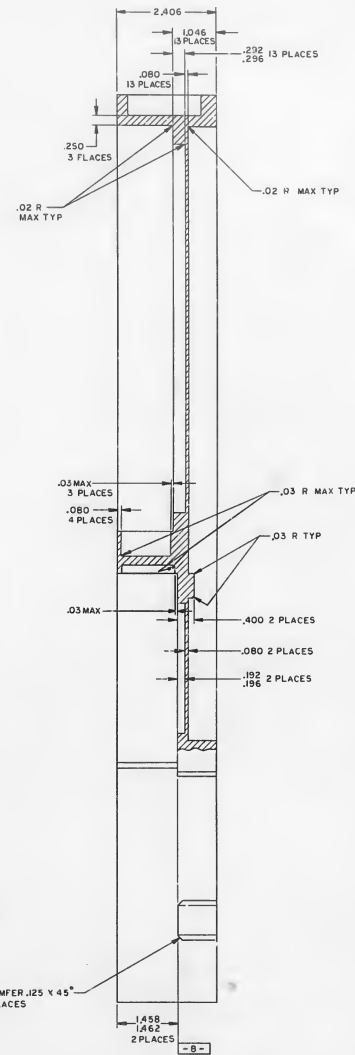
SECTION B-B



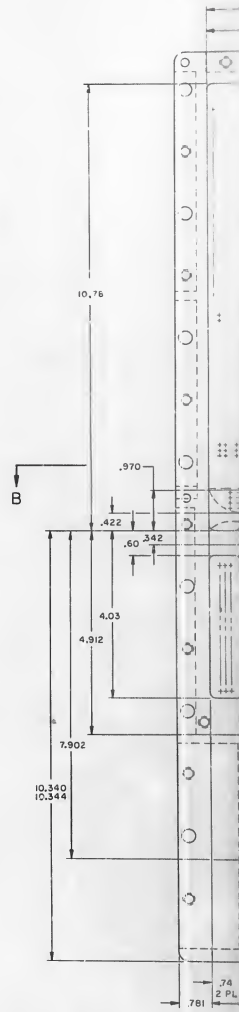
VIEW C-C

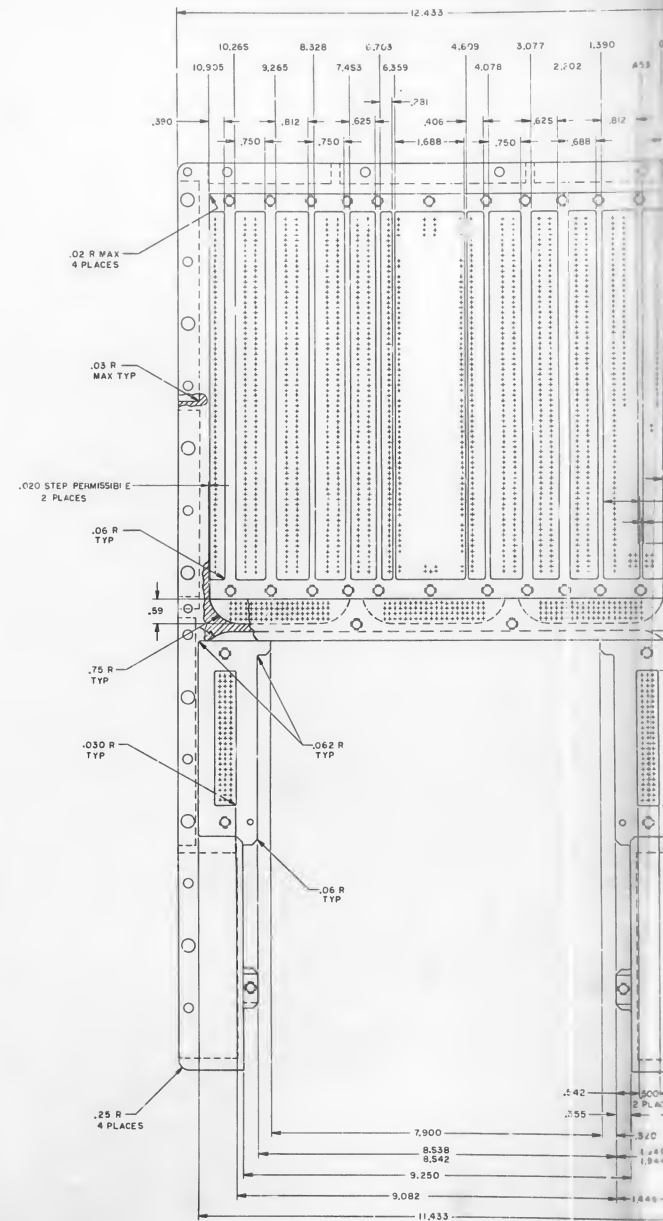
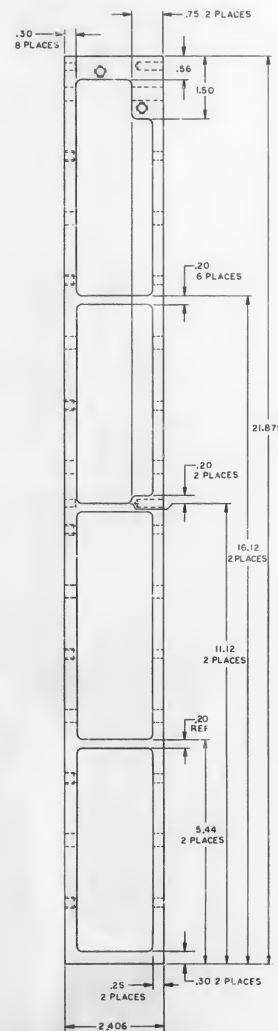
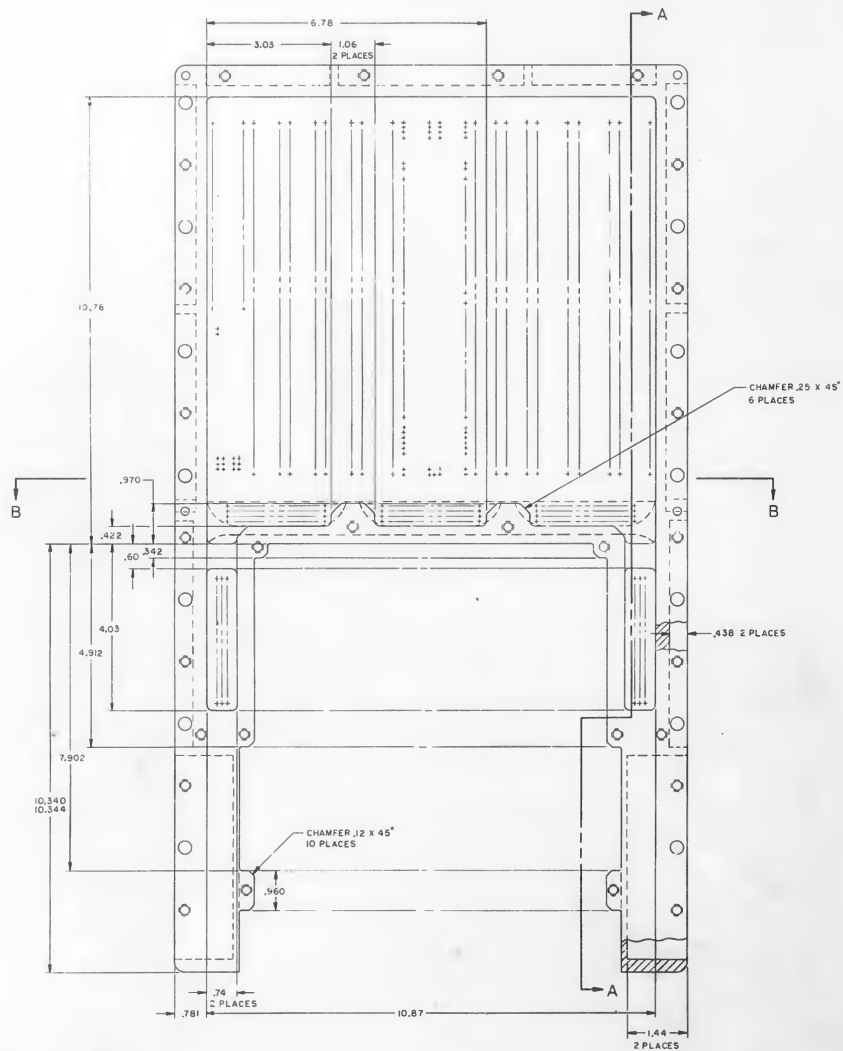


SECTION D-D
SCALE: 2/1

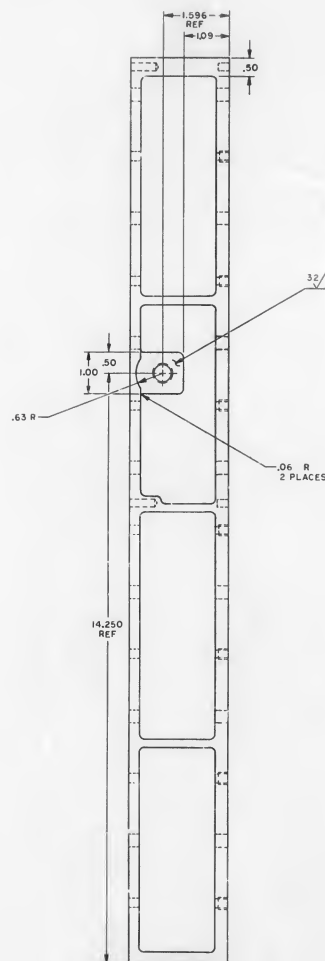


SECTION A-A





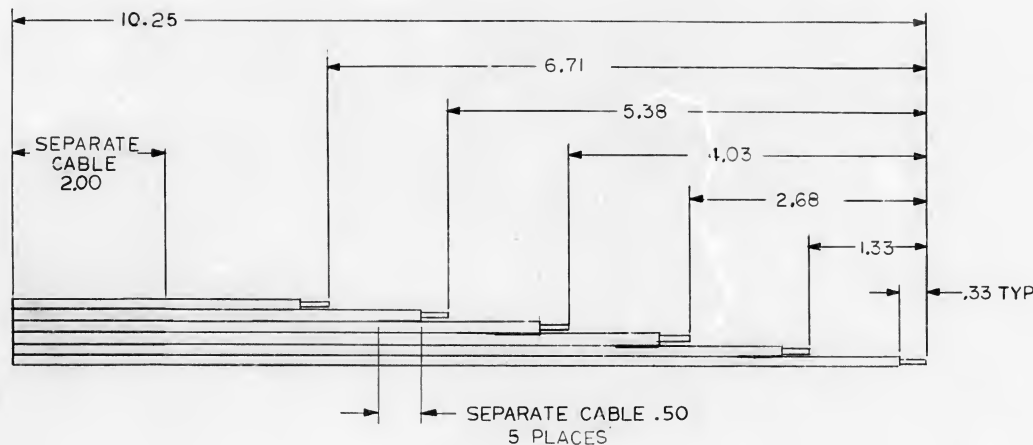
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DATE	REVISION	DESIGN OFFICE	BY	CHKD	DATE	APPROVED BY
A	REVISED PER TDAR 20286		7-11	28	5-3-84	2-28
B	REVISED PER TDAR 21250		6-26	28	5-3-84	2-28
C	REVISED PER TDAR 22617		6-26	28	5-3-84	2-28
D	REVISED PER TDAR 23146		6-26	28	5-3-84	2-28



QTY AND IDENTIFYING NO.		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FM NO.	
				USE OF MATERIALS			
UNLESS OTHERWISE SPECIFIED WEIGHTS ARE IN POUNDS CAPACITIES VALUES ARE IN U.S. GALLONS VALUES ARE IN HOURS REFERENCES ON FUNCTIONS, SECTIONS, & ASSEMBLIES A. NOT SCALE THIS DRAWING MATERIAL		MIT INSTRUMENTATION LAB CAMBRIDGE MASS DRN <i>E. C. C.</i> <i>1/20/60</i> CHECKED <i>W. J. H.</i> <i>1/20/60</i> APPROVED <i>W. J. H.</i> <i>1/20/60</i> APPROVED <i>E. C. C.</i> <i>1/20/60</i>		MANHED SPACECRAFT CENTER HOUSTON, TEXAS TRAY B INSEPARABLE ASSY AGC			
NEXT ASSY USED ON APPLICATION		APPROVED BY <i>W. J. H.</i> DATE <i>1/20/60</i> BY <i>W. J. H.</i> DATE <i>1/21</i>		CODE IDENT NO. BOX 802038 J		DRAWING NO. 2004417	
				SHEET 1 OF 2			

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SYN		ZONE		DESCRIPTION		DR	CHK	DATE	APPROVED
A				REVISED PER TDRR 21340		MB	PC	24 AUG 65	WIC



NOTES:

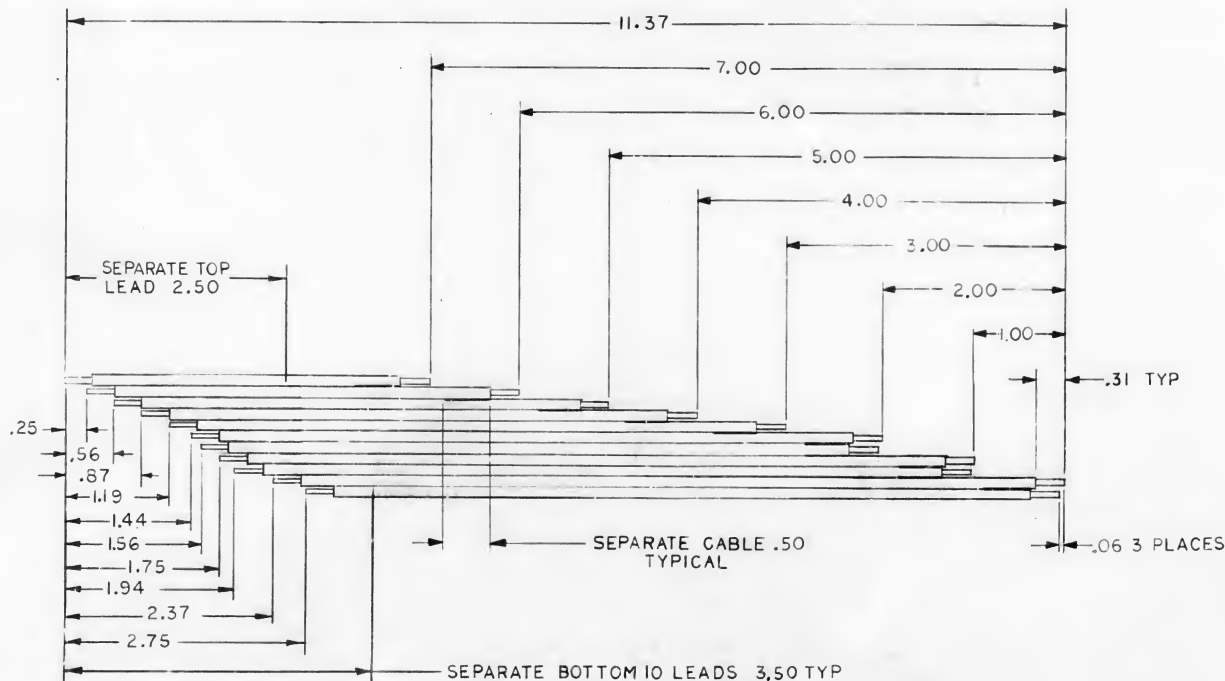
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAKE FROM 1006343-001
3. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm <u>.03</u> \pm <u>—</u> DO NOT SCALE THIS DRAWING
2003053		MATERIAL
NEXT ASSY	USED ON	SEE NOTE 2
APPLICATION		

QTY REQD	FART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>D. Black</i>		27 APR 65	
CHECKED <i>R. J. G. G. G.</i>		27 APR 65	
APPROVED <i>R. J. G. G. G.</i>		27 APR 65	
APPROVED <i>W. K. G. G. G.</i>		27 APR 65	
APPROVED <i>Michael</i>		27 APR 65	
CODE IDENT NO.		SIZE	DRAWING NO.
80230		C	2004119
SCALE NONE		SHEET 1 OF 1	

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SYN		ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A			REVISED PER TDRR 21340	7/8	LOE	29 AUG 65	WLL
B			REVISED PER TDRR 28624	2/22	LOE	6-18-66	WLL



NOTES:

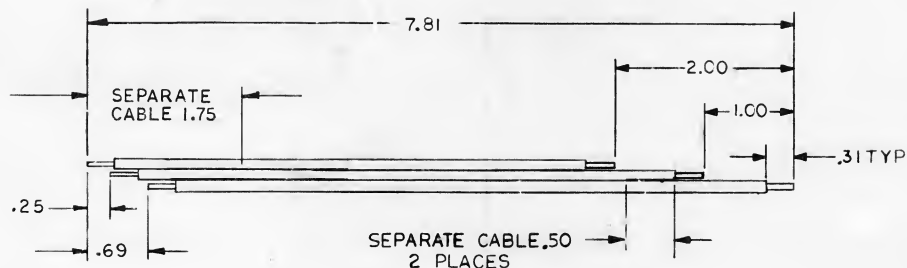
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2. MAKE FROM 1006343-002
3. IDENTIFY WITH PART NO. PER ND1002019

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .03 \pm — DO NOT SCALE THIS DRAWING
2003053		MATERIAL SEE NOTE 2
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>D. Black</i>	<i>27 APR 65</i>	FLAT CABLE FIXED MEMORY MODULE		
CHECKED <i>R. H. H. H. H.</i>	<i>2/11/65</i>			
APPROVED <i>R. H. H. H. H.</i>	<i>3/1/65</i>			
APPROVED <i>D. C. Hall</i>	<i>3/1/65</i>			
APPROVED MII <i>W. H. H. H. H.</i>	<i>4/1/65</i>	CODE IDENT NO.	SIZE	DRAWING NO.
APPROVED MSC <i>W. H. H. H. H.</i>	<i>4/1/65</i>	80230	C	2004120
DATE		SCALE NONE	SHEET 1 OF 1	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, TOLERANCES, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 20043						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 21340	90	RPK	28AUG65	WHL
B		REVISED PER TDRR 28624	90	CHZ		WHL
C		REVISED PER TDRR 30417	90	C.D.		WHL



NOTES:

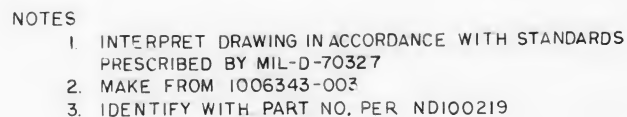
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAKE FROM 1006343-003
3. IDENTIFY WITH PART NO. PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.			MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>D. Black</i> 27APR65			FLAT CABLE FIXED MEMORY MODULE	
CHECKED <i>R. J. Grogan</i> 27APR65				
APPROVED <i>R. J. Grogan</i> 27APR65				
APPROVED <i>R. J. Grogan</i> 31MAY65			CODE IDENT NO. 80230	
APPROVED <i>M. J. Grogan</i> 4/4/65			SIZE C	
DATE			DRAWING NO. 2004121	
SCALE NONE			SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .03 \pm — DO NOT SCALE THIS DRAWING	
MATERIAL SEE NOTE 2	
NEXT ASSY	USED ON
APPLICATION	

2004121C

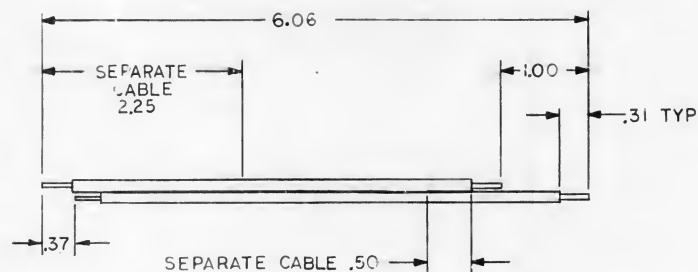
REVISIONS 20043						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		PER TDRR 21340	4B	OKK	4A/6/03	W/H
B		PER TDRR 28624	5/11	K.E.		W/H



QTY REQD	PART IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIN NO.
LIST OF MATERIALS				
MIT INSTRUMENTAL LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>D. Gluck</i>	27 APR 65	FLAT CABLE		
CHECKED <i>R. P. [unclear]</i>		FIXED MEMORY MODULE		
APPROVED <i>R. L. [unclear]</i>	27 MAY 65			
APPROVED <i>Edmund Hall</i>	31 JAN 65			
APPROVED MIT <i>[Signature]</i>	8/1/65	CODE IDENT NO.	SIZE	DRAWING NO.
		80230	C	2004122
APPROVED MSC <i>[Signature]</i>	4/1/65	SCALE NONE		SHEET OF

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REVISIONS 200413						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 21340	24B	RRK	27 May 65	WIK
B		REVISED PER TDRR 28624	24B	RRK	31 May 65	JFK



NOTES:

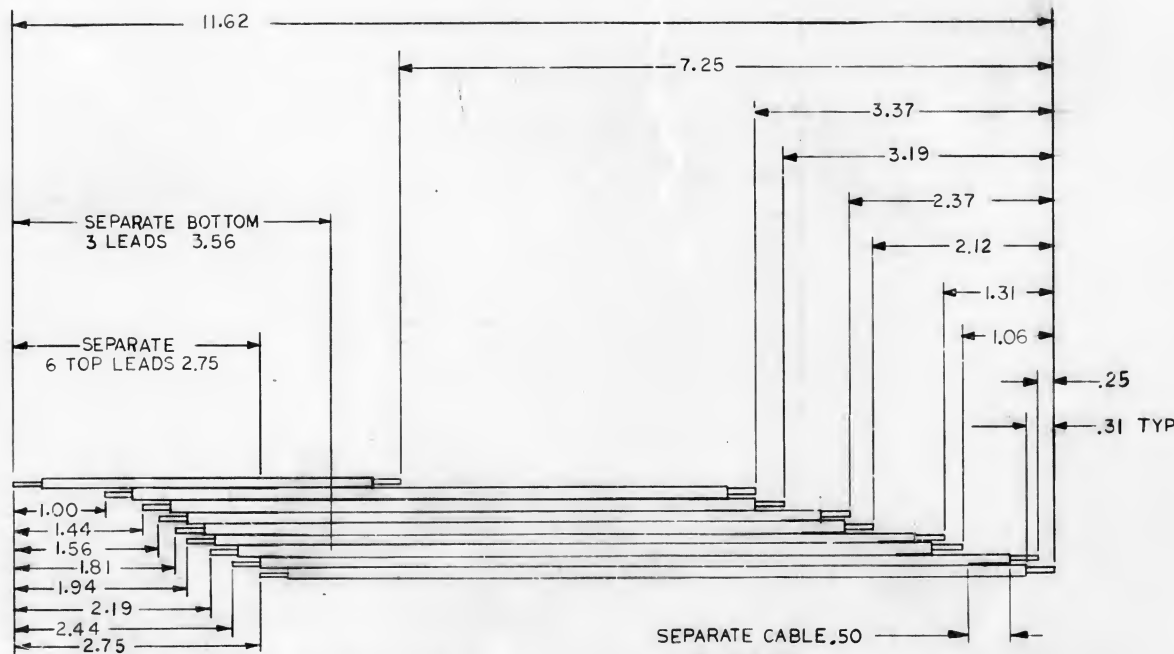
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAKE FROM 1006343-004
3. IDENTIFY WITH PART NO. PER ND1002019

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .03 \pm — DO NOT SCALE THIS DRAWING
		MATERIAL
2003053		SEE NOTE 2
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN D Black	27 APR 65	FLAT CABLE FIXED MEMORY MODULE		
CHECKED J. J. Gaudin	27 May 65			
APPROVED J. J. Gaudin	27 May 65			
APPROVED J. J. Gaudin	31 May 65			
APPROVED MIT	W. J. Gaudin	CODE IDENT NO	SIZE	DRAWING NO.
APPROVED MSC	W. J. Gaudin	80230	C	2004123
		DATE	SCALE NONE	SHEET OF

NOTICE WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY APPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 20043					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE
A		REVISED PER TDRR 21340	40	AT	24 MAR 65
B		REVISED PER TDRR 28624	200	AT	27 MAR 65
C		REVISED PER TDRR 30417	200	CD	27 MAR 65



- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MAKE FROM 1006343-005
 3. IDENTIFY WITH PART NO. PER ND1002019

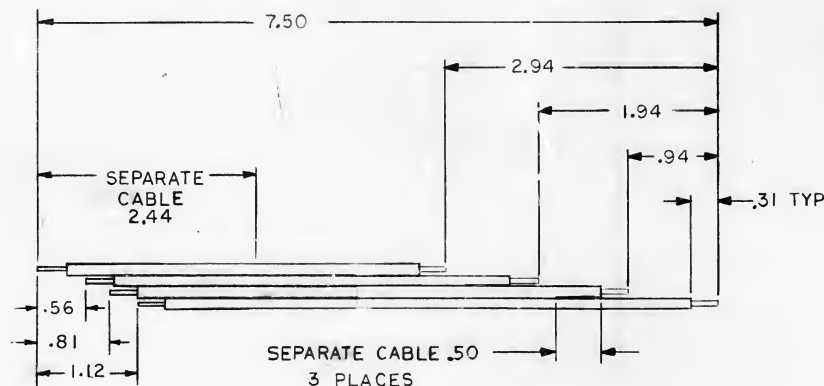
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .03 \pm — DO NOT SCALE THIS DRAWING
2003972		MATERIAL SEE NOTE 2
2003053		
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.		
LIST OF MATERIALS					
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>D. Black</i> 27 APR 65		FLAT CABLE FIXED MEMORY MODULE			
CHECKED <i>R. J. [unclear]</i> 27 APR 65					
APPROVED <i>20 [unclear]</i> 27 MAR 65					
APPROVED <i>[unclear]</i> 31 MAR 65					
APPROVED MIT	<i>[unclear]</i> 27 APR 65	CODE IDENT NO. 80230	SIZE C		
APPROVED MSC	<i>[unclear]</i> 14/65	DRAWING NO. 2004124			
DATE		SCALE NONE	SHEET 1 OF 1		

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 20043

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 21340	78	EPK	2/10/65	WJ
B		REVISED PER TDRR 28624	9/7	CRK		WJ 2/10/65
C		REVISED PER TDRR 30417	8/8	C.D. Vandyke		WJ 2/10/65



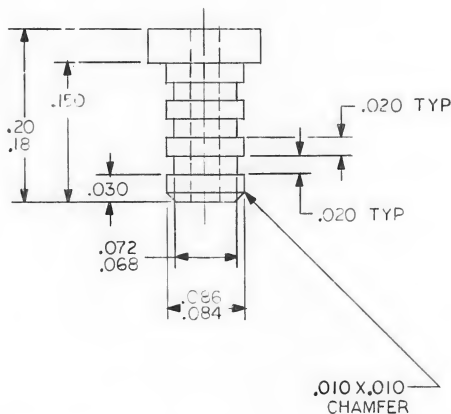
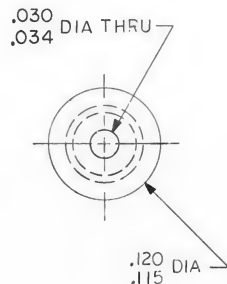
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAKE FROM 1006343-006
3. IDENTIFY WITH PART NO. PER ND1002019

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm _____ \pm .03 \pm _____ DO NOT SCALE THIS DRAWING
2003972		MATERIAL SEE NOTE 2
2003053		
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN D. Black 27 APR 65		FLAT CABLE	
CHECKED E. J. Gentry 27 APR 65		FIXED MEMORY MODULE	
APPROVED J. D. Eubank 27 MAY 65			
APPROVED E. J. Gentry 27 JUN 65			
APPROVED MIT	W. J. Gentry	CODE IDENT NO. 80230	SIZE C
APPROVED MSC	Michael	DATE	DRAWING NO. 2004125
SCALE NONE		SHEET	OF

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY ORIGIN, REVISION, ERROR, OMISSION, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHT, OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREOF.



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: POLYTETRAFLUOROETHYLENE (TEFLON) PER MIL-P-19468 TYPE TFE

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .005 \pm — DO NOT SCALE THIS DRAWING
2003063		MATERIAL SEE NOTE 2
2003062		
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>C. W. D. L. C.</i>	APR 29 1965	BUSHING AGC		
CHECKED <i>A. Lindstrom</i>	APR 29 1965			
APPROVED <i>Edgar C. Hall</i>	APR 29 1965			
APPROVED MIT	<i>W. R. R. R.</i> 27/6/65	CODE IDENT NO.	SIZE	DRAWING NO.
APPROVED MSC	<i>W. R. R. R.</i> 7/27/65	80230	C	2004127
DATE		SCALE 10/1	SHEET OF	

4 3 2 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 20043				
SYM	ZONE	DESCRIPTION	DR	CHK
A		REVISED PER TDRR 21340	40	EPK
				DATE
				29 AUG 65
				APPROVED
				WR



NOTES:

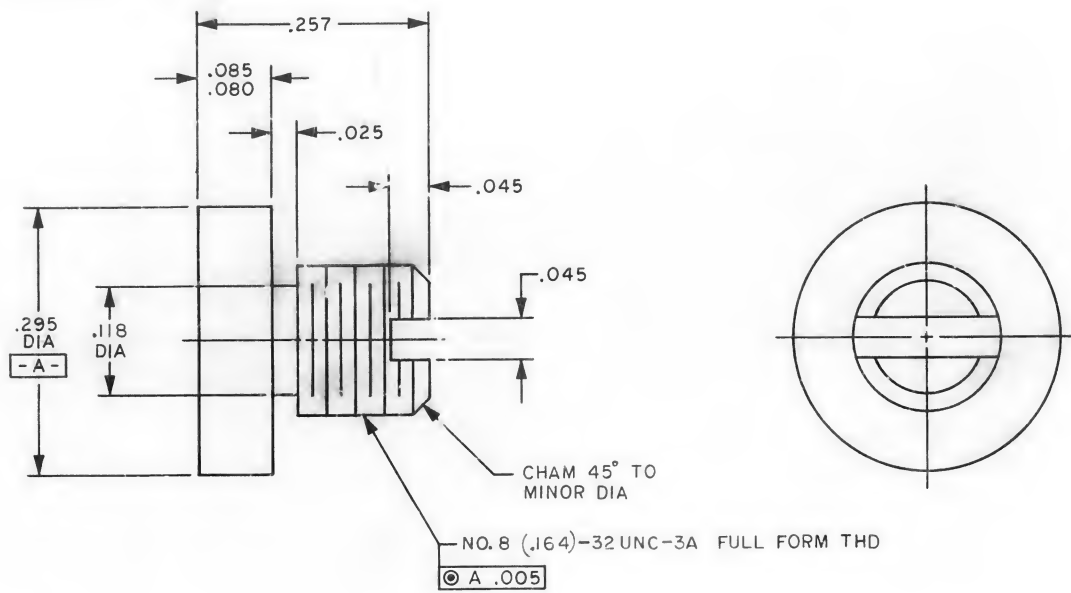
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAKE FROM 1006343-007
3. IDENTIFY WITH DRAWING NO. AND REVISION PER ND 1002019

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .010 \pm — DO NOT SCALE THIS DRAWING
		MATERIAL
2003053		SEE NOTE 2
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>Theriano</i>	6/17/65	FLAT CABLE INTERCONNECTION FIXED MEMORY MODULE	
CHECKED <i>W. J. Lawrence</i>	6/17/65		
APPROVED <i>W. J. Lawrence</i>	6/17/65		
APPROVED <i>Edmond Hall</i>	3/1/66		
APPROVED MIT <i>W. J. Lawrence</i>	6/17/65	CODE IDENT NO. 80230	SIZE C
APPROVED MSC <i>W. J. Lawrence</i>	6/17/65	DATE	DRAWING NO. 2004129
		SCALE 4/1	SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

SYMBOL		ZONE		DESCRIPTION		DR	CHK	DATE	APPROVED



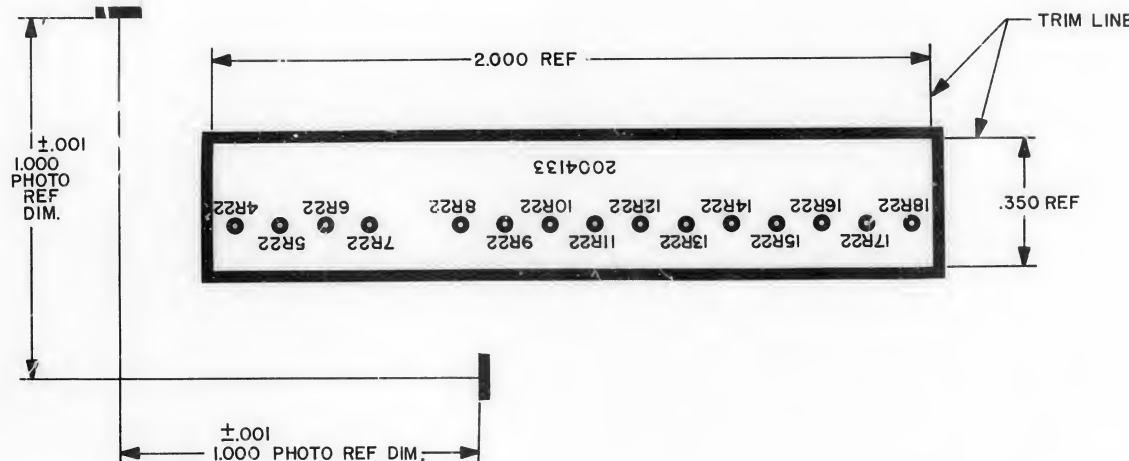
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL -D-70327
 2. MATERIAL: CRES PER QQ-S-763, CLASS 416, COND A
 3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII .010 MAX
 4. REMOVE BURRS AND SHARP EDGES .005/.015
 5. ALL SURFACES 125/ UNLESS OTHERWISE SPECIFIED
 6. FINISH: PASSIVATE PER MIL -F-14072, FINISH E300, TYPE II

2003100		NEXT ASSY		USED ON	
APPLICATION					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .005 \pm 1° DO NOT SCALE THIS DRAWING					
MATERIAL SEE NOTE 2					
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.					
MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
DRAWN <i>Ken Healy</i> 11/24/68					
CHECKED <i>P. Lindstrom</i> 1/1/69					
APPROVED <i>John C. Hall</i> 2/2/69					
APPROVED <i>W. J. ...</i> 7/1/68					
APPROVED <i>C. ...</i> 7/1/68					
CODE IDENT NO		SIZE		DRAWING NO.	
80230		C		2004130	
DATE		SCALE 10/1		SHEET 1 OF 1	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY DELAYATION, UNRELIABILITY, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 20615

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



NOTES:

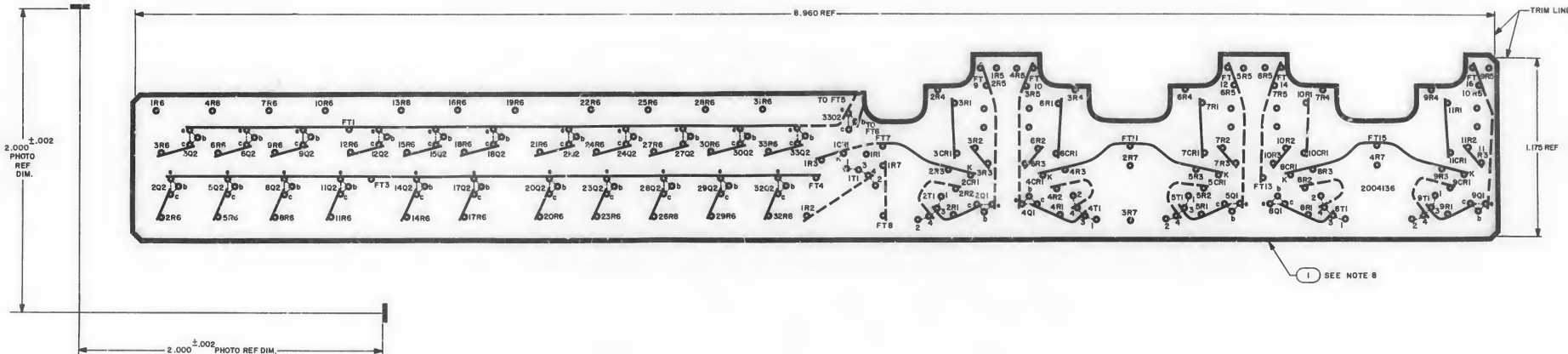
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: FILM .006/.008 THICK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
4. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
5. CUT TO WITHIN .010 OF TRIM LINE
6. .040/.050 DIA HOLE

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm — \pm — DO NOT SCALE THIS DRAWING MATERIAL
2003067		SEE NOTE 2
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN BY <i>E. J. [signature]</i>	<i>21 May 65</i>	INSULATOR C PHOTOGRAPHIC MASTER INTERFACE MODULE A27-29		
CHECKED <i>R. [signature]</i>	<i>21 JUNE 65</i>			
APPROVED <i>[signature]</i>	<i>21 JUNE 65</i>			
APPROVED <i>[signature]</i>	<i>26 June 65</i>			
APPROVED MIT <i>[signature]</i>	<i>7/9/65</i>	CODE IDENT NO.	SIZE	DRAWING NO.
APPROVED MSC <i>[signature]</i>	<i>7/9</i>	80230	C	2004133
DATE		SCALE 4/1	SHEET 1 OF 1	

THIS DRAWING IS THE PROPERTY OF THE MIT SPACECRAFT CENTER. IT IS TO BE USED ONLY FOR THE PURPOSES FOR WHICH IT WAS ISSUED. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE MIT SPACECRAFT CENTER. THE MIT SPACECRAFT CENTER ASSUMES NO LIABILITY FOR THE USE OR MISUSE OF THIS DRAWING.

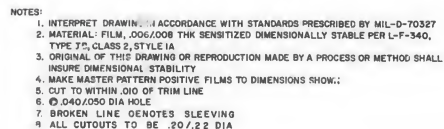
REVISIONS				
REV	DATE	BY	DATE	APPROVED
1	2004136-001			



- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: FILM .006/.008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE 1B, CLASS 2 STYLE 1A
 3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
 4. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
 5. CUT TO WITHIN .010 OF TRIM LINE
 6. \varnothing .040/.050 DIA HOLE
 7. BROKEN LINE DENOTES SLEEVING
 8. APPLY FIND NO. 2 TO FAR SIDE OF FIND NO. 1

AR	1006318	ADHESIVE	2
REV	2004136-001	INSULATOR	1
REV	IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
-011-			
MIT INSTRUMENTATION LAB		MIT SPACECRAFT CENTER	
CHAMBER 1000		HOUSTON, TEXAS	
INSULATOR A			
PHOTOGRAPHIC MASTER			
INTERFACE MODULE A25-25			
APPROVED	MIT	CODE IDENT NO	80230 E
APPROVED	MIT	DATE	2004136
APPROVED	MIT	SCALE	4/1
APPROVED	MIT	SHEET	1 OF 1

UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
CAPACITOR VALUES ARE IN μ F	
RESISTOR VALUES ARE IN OHMS	
TOLERANCES ON	
FRACTIONS	DECIMALS
ANGLES	
DO NOT SCALE THIS DRAWING	
MATERIAL	
2003070	SEE NOTE 2
TEST ASST	USED ON
APPLICATION	



CLASS		PART OR IDENTIFYING NO		NOMINATION OR DESCRIPTION	
1		2		3	
LIST OF MATERIALS					
MIT INSTRUMENTATION LAB		MANHATTAN SPACEPORT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE μF RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ϕ θ DO NOT SCALE THIS DRAWING SHEET NO.					
2003070		INSULATOR B PHOTOGRAPHIC MASTER INTERFACE MASTER A25-26			
NEXT ASST		USE ON		DRAWING NO.	
APPLICATION		DATE		SHEET 1 OF 1	

4

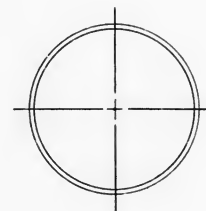
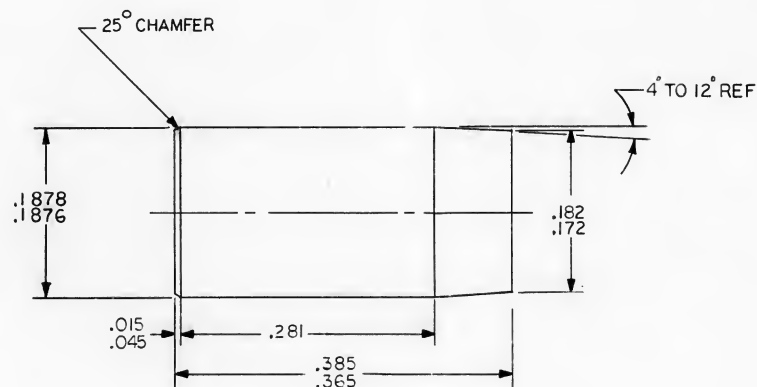
3

2

1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

SYM		ZONE	REVISIONS		DESCRIPTION	DR	CHK	DATE	APPROVED
				21106					



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: CRES PER QQ-S-763 CLASS 416 COND A
3. PASSIVATE PER MIL-F-14072 FINISH E 300 TYPE II
4. IDENTIFY WITH DRAWING NO. AND REVISION PER ND 1002019

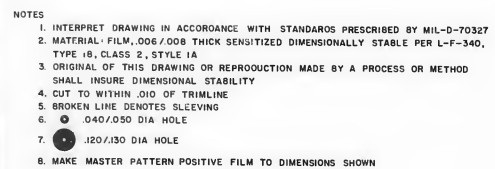
2003074	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ f
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
 \pm — \pm .005 \pm 5°
DO NOT SCALE THIS DRAWING

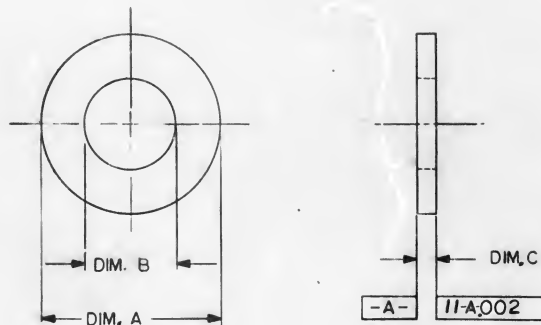
MATERIAL

SEE NOTE 2

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIND NO.
		LIST OF MATERIALS		
	MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN	<i>Louis D. Long</i>	PIN HEADLESS DOWEL		
CHECKED	<i>A. J. Jendryak</i>			
APPROVED				
APPROVED	<i>John C. Hill</i>			
APPROVED	<i>W. H. Kasper</i>	CODE IDENT NO.	SIZE	DRAWING NO.
APPROVED	<i>AL</i>	80230	C	2004139
DATE	11/2/66	SCALE 10/1	SHEET 1 OF 1	

[illegible]

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OMISSION, UNAUTHORIZED, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREIN.



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-C-70327
2. MATERIAL: 6061-T6 AL PER QQ-A-250/11, TEMP 6
3. ALL SURFACES ⁶³/ UNLESS OTHERWISE SPECIFIED
4. REMOVE BURRS AND SHARP EDGES .010 MAX
5. CHROMATE PER MIL-C-5541, TYPE II, GRADE C, CLASS 3
6. IDENTIFY WITH PART NO. PER ND1002019
7. ANODIZE PER MIL-A-8625, TYPE I, CLEAR

2007322	
6007200	
6007000	
2007222	
6003001	
2003101	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μ f
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTE 2

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>W. J. Long</i> 7/28/65		WASHER, FLAT	
CHECKED <i>W. J. Long</i> 8/3/65			
APPROVED <i>W. J. Long</i> 8/3/65			
APPROVED <i>W. J. Long</i> 8/3/65		CODE IDENT NO.	SIZE
NOT REQUIRED PER LETTER 10076		80230	C
DATE 7/28/65		DRAWING NO. 2004148	
SCALE 4/1		SHEET 1 OF 1	

CHART A

PART NO.	DIM. A	DIM. B	DIM. C	FINISH
2004148-001	.504 / .500	.260 / .265	.034 / .030	SEE NOTE 5
2004148-002	.504 / .500	.260 / .265	.064 / .060	SEE NOTE 5
2004148-003	.282 / .262	.143 / .153	.032 / .028	SEE NOTE 5
2004148-004	.600 / .590	.395 / .385	.036 / .028	SEE NOTE 7
2004148-005	.314 / .304	.169 / .179	.030 / .025	SEE NOTE 5
2004148-006	.364 / .354	.195 / .205	.034 / .030	SEE NOTE 5
2004148-007	.314 / .304	.169 / .179	.006 / .008	SEE NOTE 5
2004148-008	.443 / .433	.215 / .225	.034 / .030	SEE NOTE 5
2004148-009	.364 / .354	.215 / .225	.034 / .030	SEE NOTE 5

REVISIONS 22892				
SYM	ZONE	DESCRIPTION	DR	CHK
(21)	A	REVISED PER TDRR 24696	WJL	077 1/6/66
(20)	B	REVISED PER TDRR 25976	WJL	077 2/1/66
(19)	C	REVISED PER TDRR 26769	WJL	077 3/8/66
(18)	D	REVISED PER TDRR 28177	WJL	077 5/25/66
(17)	E	REVISED PER TDRR 29143	WJL	077 6-16-66

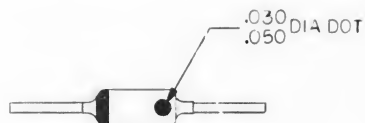
2004148 E

4

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY CELESTATION, WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, PROVIDED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSE THE USER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREIN.

REVISIONS					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE
A		REDRAWN & REVISED PER 32544	R. J. J.	2 Feb 67	

PART NO.	DOT COLOR		MARKING INK	DIODE NO.	NOTES
2004183-001	GREEN	UNMATCHED	1006271-5	1006399	SEE NOTE 4
2004183-002	GREEN & YELLOW	MATCHED SET	1006271-5 1006271-4	1006399	SEE NOTE 4



GENERAL REQUIREMENTS:

UPON COMPLETION OF ALL REQUIREMENTS AS SPECIFIED IN ND1002314 ONLY THOSE DIODES FROM LOTS WHICH QUALIFY FOR FLIGHT HARDWARE UNDER THE PROVISIONS OF ND1002314 SHALL BE MARKED AS INDICATED IN THIS DOCUMENT.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY WITH PART NO. PER ND1002019.
3. MATCHED SET:
TEST FOR MATCHING: A MATCHED SET WILL HAVE A FORWARD VOLTAGE MISMATCH OF LESS THAN 3 MILLIVOLTS AT 1.0 AND 3.6 MILLAMPS FORWARD CURRENT
A MATCHED SET IS MARKED WITH AN ADDITIONAL (YELLOW) DOT FAR SIDE AND THEN THE SET IS BAGGED AND TAGGED. BOTH DIODES OF A GIVEN PAIR SHALL BE FROM THE SAME LOT.
4. USE 1006399-00C OR 1006399-001.

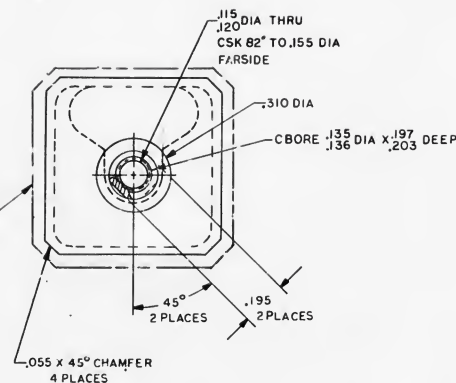
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING
		MATERIAL
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN	R. St. Jean	20 JAN 67	DIODE (FLIGHT QUALIFIED)	
CHECKED	R. St. Jean	23 JAN 67		
APPROVED				
APPROVED	E. G. Hall	34 JAN 67		
APPROVED	C. C. B.	2 Feb 67	CODE IDENT NO.	SIZE
APPROVED	MSC		80230	C
DATE		SCALE NONE	DRAWING NO. 2004183	
			SHEET	OF

A

CHART C (MAKE FROM 2004184-001)					
TEST	CONDITIONS	SYM	LIMITS		UNITS
			MIN	MAX	
COLLECTOR - EMITTER SUSTAINING VOLTAGE	$I_c = 30\text{ ma}$ PULSED $I_B = 0$	V_{CE0} SUST.	40	—	V

I SEE CHART		TRANSISTOR SILICON (FLIGHT QUAL)		I
QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>[Signature]</i>	17/8/67	TRANSISTOR, SILICON (FLIGHT QUALIFIED)		
CHECKED <i>[Signature]</i>	1/8/67			
APPROVED <i>[Signature]</i>	1/8/67			
APPROVED <i>[Signature]</i>	1/8/67			
APPROVED <i>[Signature]</i>	2/8/67	CODE IDENT. NO.	SIDE	DRAWING NO.
C-6		80230	D	2004184
APPROVED <i>[Signature]</i>	NSC	DATE	SCALE 4:1	SHEET 1 OF



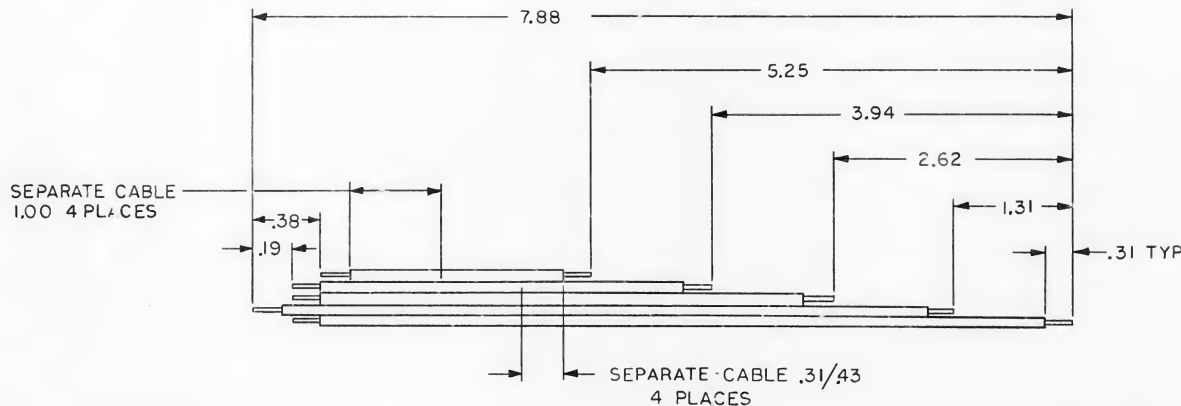
1. MATL:6061-T6 AL PER QQ-A-225⁸/8, TEMP 6
2. REMOVE BURRS AND SHARP EDGES .005 MAX UNLESS OTHERWISE SPECIFIED
3. INSIDE RADI TO BE 0.10 R MAX
4. ANODIZE PER MIL-A-8625, TYPE II, NOT DYED (THICKNESS OF ANODIC COATING .0003-.0004)
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
6. IDENTIFY WITH PART NO. PER NID002019
7. ALL SURFACES ¹²⁵✓ UNLESS OTHERWISE SPECIFIED
8. COAT INDICATED SURFACES 0.2/0.4 MIL DRY FILM THICKNESS PER AMS 2558, EXCEPT 0.2 MIL MINIMUM NOT REQUIRED AT SURFACE INTERSECTIONS
9. * INDICATES DIMENSIONS AFTER COATING SURFACES PER NOTE 8
10. COATING THICKNESS ON INDICATED SURFACES MAY EXCEED 0.4 MIL AS FLASHING, BUT NOT TO EXCEED 1.0 MIL.

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ARE .005 \pm 10° DO NOT SCALE THIS DRAWING		M I T INSTRUMENTATION LAB CAMBRIDGE, MASS DRAWN <i>Shostakov</i> INDEXED <i>12/24/78</i> CHECKED <i>Shostakov</i> APPROVED <i>Shostakov</i> APPROVED <i>Shostakov</i>		LIST OF MATERIALS MANNED SPACECRAFT CENTER HOUSTON, TEXAS SHASTA SWITCH, PUSH BUTTON AGC DSKY	
20033975		MATERIAL		APPROVED REVISION <i>1</i> <i>5/4/79</i>	CODE IDENT NO 80230	SIZE D	DRAWING NO 2004678
2003925		SEE NOTE 1		APPROVED CSC <i>M</i> <i>✓</i>	DATE	SCALE 4/1	SHEET 1 OF 1
NEXT ASY	USED ON	APPLICATION					

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR ENDORSEMENT IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		INITIAL RELEASE TPAR 31992			16 Feb 17	SEA



NOTES:

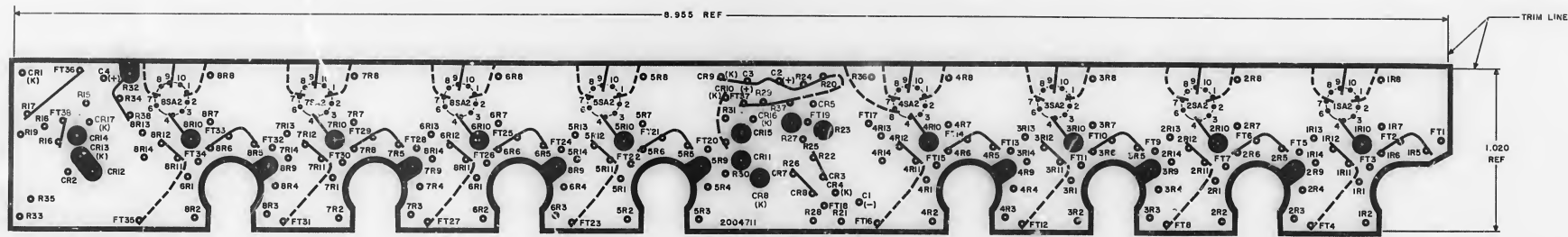
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MAKE FROM 1006343-001
3. IDENTIFY WITH PART NO. PER ND1002019

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm — \pm .03 \pm — DO NOT SCALE THIS DRAWING
2003972		MATERIAL SEE NOTE 2
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN	10 OCT 66	FLAT CABLE FIXED MEMORY MODULE		
CHECKED	11 OCT 66			
APPROVED				
APPROVED	28 Oct 66			
APPROVED		CODE IDENT NO.	SIZE	DRAWING NO.
CCB		80230	C	2004684
APPROVED		DATE	SCALE NONE	SHEET 1 OF 1
MSC				

1. THIS DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT AND IS LOANED TO YOU BY THE NATIONAL BUREAU OF STANDARDS. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE ORDER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE NATIONAL BUREAU OF STANDARDS.

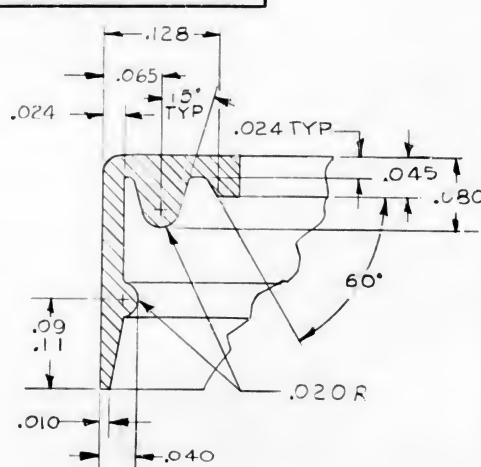
REVISIONS
 1 2035
 DATE 10/1/54
 APPROVED



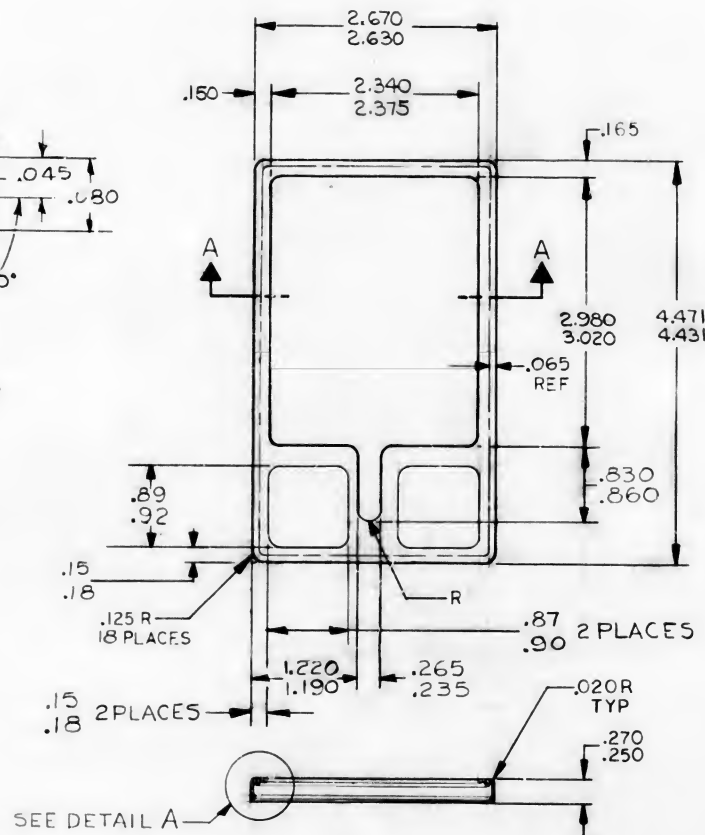
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. MATERIAL: FILM .006/.008 THICK SENSITIZED DIMENSIONALLY STABLE
 PER L-F-340 TYPE IB, CLASS 2, STYLE 1A
 3. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
 4. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
 5. CUT TO WITHIN .010 OF TRIMLINE
 6. BROKEN LINE DENOTES SLEEVING
 7. $\varnothing .040 / .050$ DIA HOLE
 8. $\varnothing .035 / .045$ DIA HOLE (ISA2 THRU ISA2 ONLY)
 9. $\varnothing .120 / .130$ DIA HOLE (14 PLACES)

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	PROD NO.
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING		INSTRUMENTATION LAB CAMBRIDGE, MASS MANNED SPACECRAFT CENTER HOUSTON, TEXAS INSULATOR B PHOTOGRAPHIC MASTER SENSE AMPLIFIER MODULE	
2003962	SEE NOTE 2	APPROVED: <i>[Signature]</i> DATE: 10/1/54	CAGE IDENT NO. 80230 E DRAWING NO. 2004711
2003961	USED ON	APPROVED: <i>[Signature]</i> DATE: 10/1/54	SCALE 4/1
APPLICATION		SHEET 1 OF 1	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITE GOVERNMENT RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER. EVEN IF THE TITLE, NAME, OR ADDRESS OF THE GOVERNMENT AGENCY IS FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REBARED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON TO REPRODUCE, COPIY, OR IN ANY MANNER USE THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA OR ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



DETAIL A
SCALE: 10/1



SECTION A-A

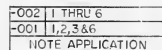
NOTES

1. MATL: RUBBER, MOLDED SILICONE (GE-52II) PER MIL-R-5847, CLASS III, 20-25 DUROMETER
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
3. IDENTIFY WITH PART NO. PER ND1002019, EXCEPT DO NOT MARK GASKET.

REVISIONS <i>TDRR 35062</i>						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
<i>A</i>		REVISED PER TDRR 35331	<i>efo</i>	<i>Jul</i>	<i>1/5/8</i>	<i>WR</i>

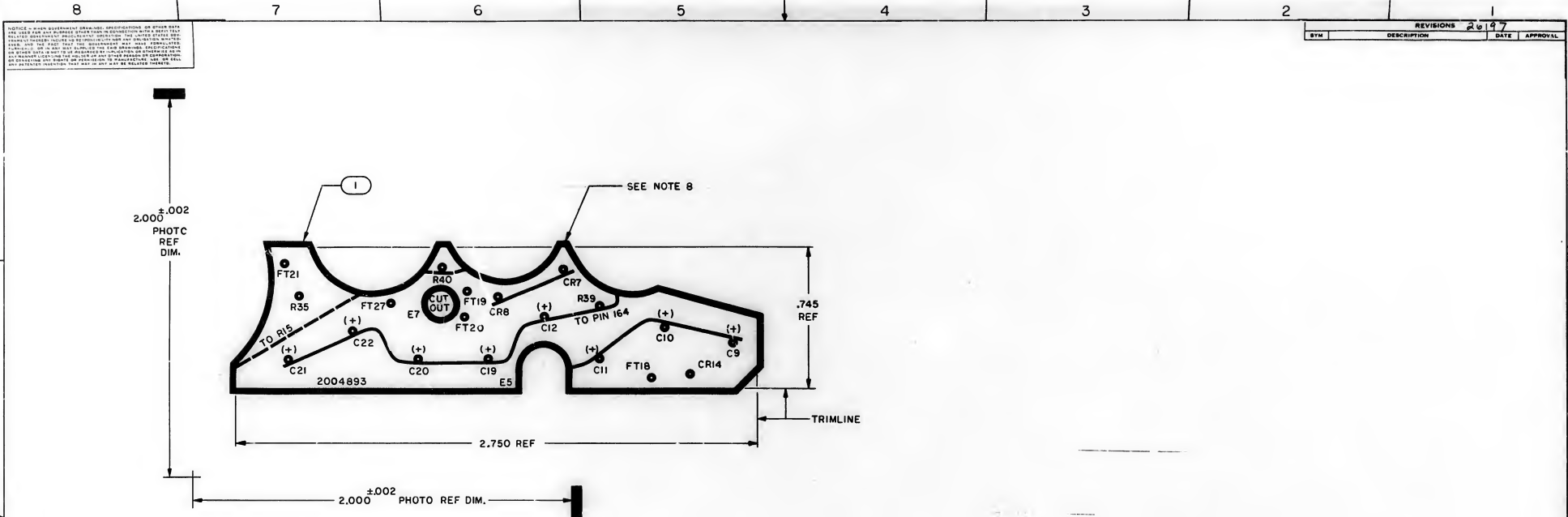
QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION		NO.
LIST OF MATERIALS					
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.			MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>R. J. Holmes</i>	<i>2 NOV 67</i>	GASKET, INDICATOR COVER			
CHECKED <i>E. W. Hall</i>	<i>3 NOV 67</i>				
APPROVED <i>E. W. Hall</i>	<i>7 NOV 67</i>				
APPROVED <i>W. S. Hamers</i>	<i>4 Nov 67</i>				
<i>CONTAGAST NAS9-497</i>					
APPROVED <i>E. W. Hall</i>	<i>11/4/67</i>	CODE IDENT NO.	SIZE	DRAWING NO.	
		80230	C	2004741	
APPROVED MSC	<i>A. C. Hall</i>	DATE	SCALE 1/1	SHEET OF	

REVISIONS								TOLN 37321
SYM	ZONT	DESCRIPTION	DR	CHK	DATE	APPROVED		



1. MAT'L: LAMINATED GLASS PER MIL-G-8602A, CLASS II, GRADE 2N.
2. INTERPRET DWG IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3. IDENTIFY WITH PART NO, PER
ND1002019
4. ANTI-REFLECTION COATING PER MIL-C-675A, EXCEPT THE REQUIREMENTS OF
PARA: 3.7 AND 4.6.9; MAY BE APPLIED TO THE FRONT SURFACE. THE
COATING SHALL BE WITHIN .09IN. OF THE EXTREMITIES OF THE FRONT
SURFACE. THE UNCOATED AREA SHALL NOT EXCEED A TOTAL OF 0.7 SQ. IN.
5. BORDER SURFACES SHALL BE FREE OF COATING PER NOTE 4
6. GRIND SHARP EDGES .004/008.

QTY REQD		PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
			LIST OF MATERIALS		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL			MANNED SPACECRAFT CENTER HOUSTON, TEXAS PANEL, INDICATOR (E/L) AGC DSKY CODE IDENT NO. SIZE DRAWING NO. 80230 D 2004745 DATE SCALE 2/1 SHEET 1 OF 1		



- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
 3. CUT TO WITHIN .010 OF TRIMLINE
 4. MAKE MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
 5. MATERIAL: FILM .006/.008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
 6. ϕ .040/.050 DIA HOLE
 7. BROKEN LINE DENOTES SLEEVING
 8. APPLY FIND NO. 2 TO FAR SIDE OF FIND NO. 1
 9. ϕ .20/.22 DIA HOLE
 10. AR DENOTES AS REQUIRED

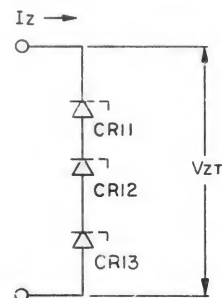
AR 1006318		ADHESIVE		2
I 2004893-001		INSUL/TOR A		1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANHATTAN SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN <i>E. J. Metzger</i> DATE <i>6/1/66</i>		INSULATOR A PHOTOGRAPHIC MASTER POWER SUPPLY		
CHECKED <i>J. P. Metzger</i> DATE <i>7/1/66</i>				
APPROVAL <i>J. P. Metzger</i>				
MIT APPROVAL <i>J. P. Metzger</i>		NASA APPROVAL <i>J. P. Metzger</i>	CODE IDENT NO. 80230 D	NASA DRAWING NO. 2004893
NEXT ASSY		USED ON	SCALE 4/1	WT
APPLICATION		FINAL FINISH	SHEET 1 OF 1	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE IN ANY MANNER LIEING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO REPRODUCE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

REVISIONS TDDR 26197

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDDR 27553	SPJ	CM	4/16/66	[Signature]

REF DES	FIND NO.
CRI1	
CRI2	
CRI3	I



NOTE

- CRI1, CRI2 & CRI3 SHALL BE SELECTED SUCH THAT WHEN THEY ARE CONNECTED IN SERIES AS SHOWN V_{zT} SHALL BE 25.95 ± 0.20 VDC WITH $I_z = 5.0 \pm 0.2$ MA
- IDENTIFY PER NO 1002019

1	2004112-002		DIODE	2
3	2004112-001		DIODE	1
QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

2003953		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
NXT ASSY		USED ON		DRAWN E. Ullring 7FEB66		DIODE SELECTION LIST POWER SUPPLY	
APPLICATION		MATERIAL		CHECKED R. Edwards 7FEB66		APPROVED J. M. Hall 9FEB66	
				APPROVED [Signature] 9FEB66		CODE IDENT NO. SIZE	
				APPROVED MSC		80230 C	
				DATE		DRAWING NO. 2004897	
				SCALE NONE		SHEET 1 OF 1	

4

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY INFORMATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE PARTICIPATED IN THE DEVELOPMENT OF THE DATA IS NOT TO BE REASONED BY IMPLICATION OR OTHERWISE AS AN ENDORSEMENT OR RECOMMENDATION OF THE DATA OR THE DESIGN OR CONSTRUCTION OF ANY INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1

REVISIONS 26200

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		CHANGE PER TDRR 32351			12 JAN 67	1/17/67 3882

C REF

A

B

DASH NO.	MATL MAKE FROM	DIM. A $\pm .01$	DIM. B $\pm .01$	DIM. C REF
001	1006370-004	10.75	6.00	.193
002	1006370-005	4.55	1.27	.127
003	1006370-006	10.50	3.94	.085
004	1006370-006	9.00	3.94	.085
005	1006370-006	10.50	2.40	.085

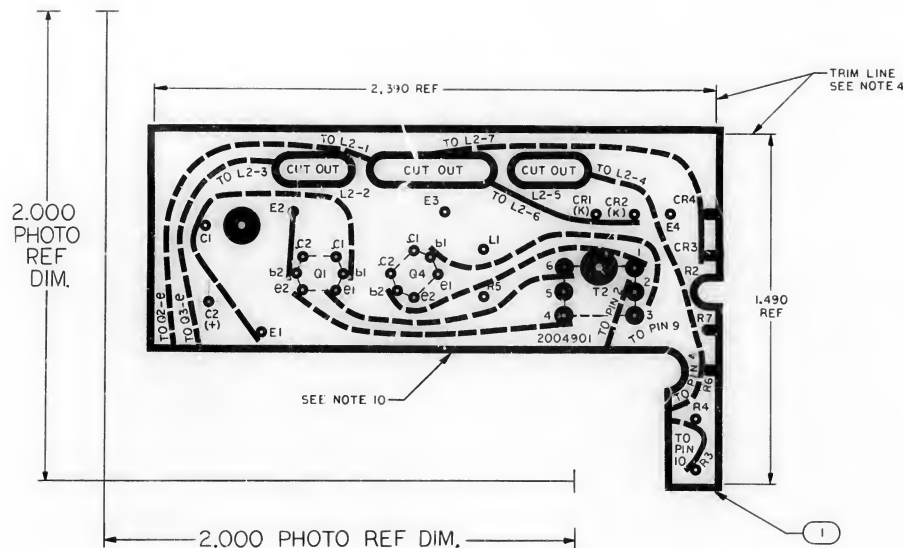
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATL: SEE CHART

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm $\pm .005$ \pm DO NOT SCALE THIS DRAWING
2003977		
2003976		
2003200		
2003970		
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN	11/2/66	3/2/66	PAD, VIBRATION AGC	
CHECKED	3/2/66	10/2/66		
APPROVED	11/2/66	11/2/66		
APPROVED MIT	11/2/66	CODE IDENT NO.	SIZE	DRAWING NO.
APPROVED MSC	11/2/66	80230	C	2004899
DATE		SCALE	1/1	SHEET OF

NOTES: 1. MATL: FILM, .006/.008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE 1A.
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY.
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN.
4. CUT TO WITHIN .010 OF TRIMLINE.
5. BROKEN LINE DENOTES SLEEVING.
6. .040/.050 DIA HOLE.
7. .180/.190 DIA HOLE.
8. .050/.100 DIA HOLE.
9. IDENTIFY WITH DRAWING NO. & REVISION PER NDI002019.
10. APPLY FIND NO. 2 TO FAR SIDE OF FIND NO. 1.
11. AR DENOTES AS REQUIRED.
12. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.



- NOTES
- MATL: FILM, .006/.008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE 1A.
 - ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY.
 - MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN.
 - CUT TO WITHIN .010 OF TRIMLINE.
 - BROKEN LINE DENOTES SLEEVING.
 - .040/.050 DIA HOLE.
 - .180/.190 DIA HOLE.
 - .050/.100 DIA HOLE.
 - IDENTIFY WITH DRAWING NO. & REVISION PER NDI002019.
 - APPLY FIND NO. 2 TO FAR SIDE OF FIND NO. 1.
 - AR DENOTES AS REQUIRED.
 - INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

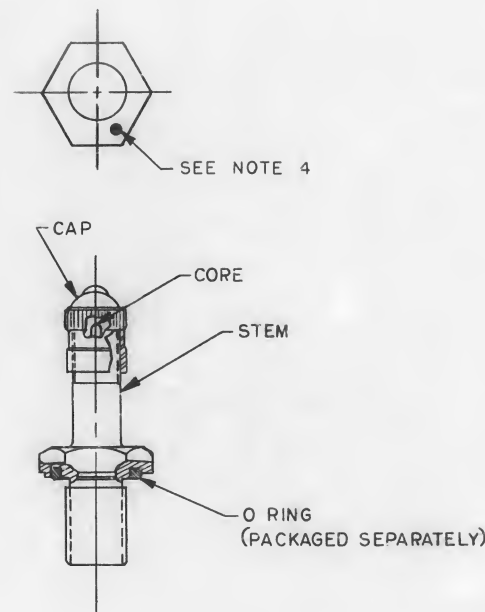
AR	1006318	ADHESIVE	2
I	2004901-001	INSULATOR	1
QTY		PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
REQD			FIND NO
Q11			LIST OF MATERIALS

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MAN'NED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN	DATE	INSULATOR, PHOTO MASTER	
CHECKED	DATE	LOWER LEVEL	
APPROVAL	DATE	POWER SUPPLY MODULE, AGC DSKY	
APPROVAL	DATE	80230 D	
NASA APPROVAL	DATE	2004901	
NEXT ASSY	USED ON	SCALE 4/1	
APPLICATION	FINAL FINISH	SHEET 1 OF 1	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A GOVERNMENT-RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSE THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CORRECTING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22737

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



NOTES

1. MAKE FROM SCD 1006345
2. REMOVE VALVE CORE, CLEAN VALVE SEAT AND CORE USING ACETONE, FED SPEC O-A-51 AND DRY COMPRESSED AIR
3. TORQUE FOR VALVE CORE SHALL BE 14.0 TO 16.0 INCH OUNCES
4. TEST PER:
 - A. MIL-STD-202, METHOD 112, TEST CONDITION "C", PROCEDURE IIIa, USING HELIUM. THE DIFFERENTIAL PRESSURE SHALL BE 20 PSIA AND TEMPERATURE SHALL BE $70^{\circ}\text{F} \pm 20^{\circ}\text{F}$. THE LEAK RATE SHALL NOT EXCEED 1×10^{-5} STD. CC/SEC.
 - B. THE ABOVE TEST SHALL BE PERFORMED WITH THE CAP REMOVED
5. AFTER VALVE QUALIFICATION PER NOTE 4 MARK WITH DOT APPROXIMATELY WHERE SHOWN, USING MARKING INK (RED) 1006271-7

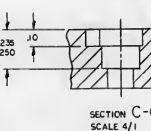
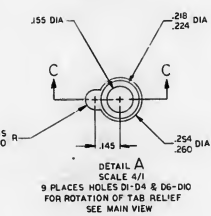
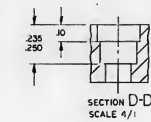
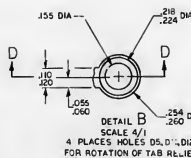
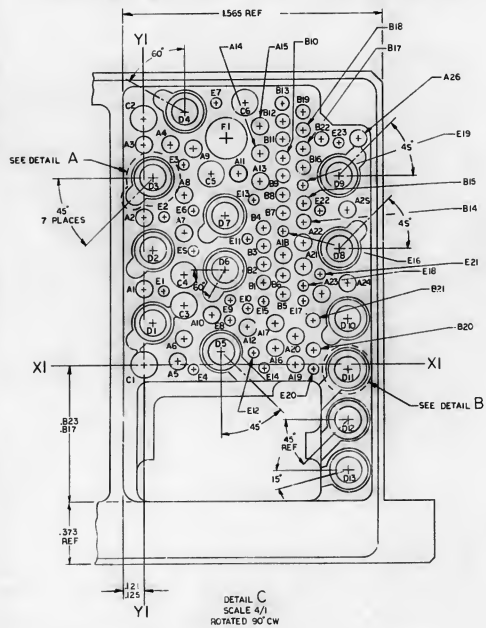
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μF RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING
2003954		MATERIAL
2003904		
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.	
LIST OF MATERIALS					
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.			MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN	J.A. Baffone	10 SEP 65	VALVE, PNEUMATIC TANK (LEAK TESTED) AGC DSKY		
CHECKED	Blaze	21 SEP 65			
APPROVED	Frank J. Thomas	21 SEP 65			
APPROVED	Edwin C. Hall	24 SEP 65			
APPROVED	W. J. Rafter	25 SEP 65	CODE IDENT NO.	SIZE	DRAWING NO.
MIT NOT REQUIRED PER LETTER		80230	C	2004903	
APPROVED	NASA PP7-65-612	DATE	SCALE	NONE	SHEET 1 OF 1

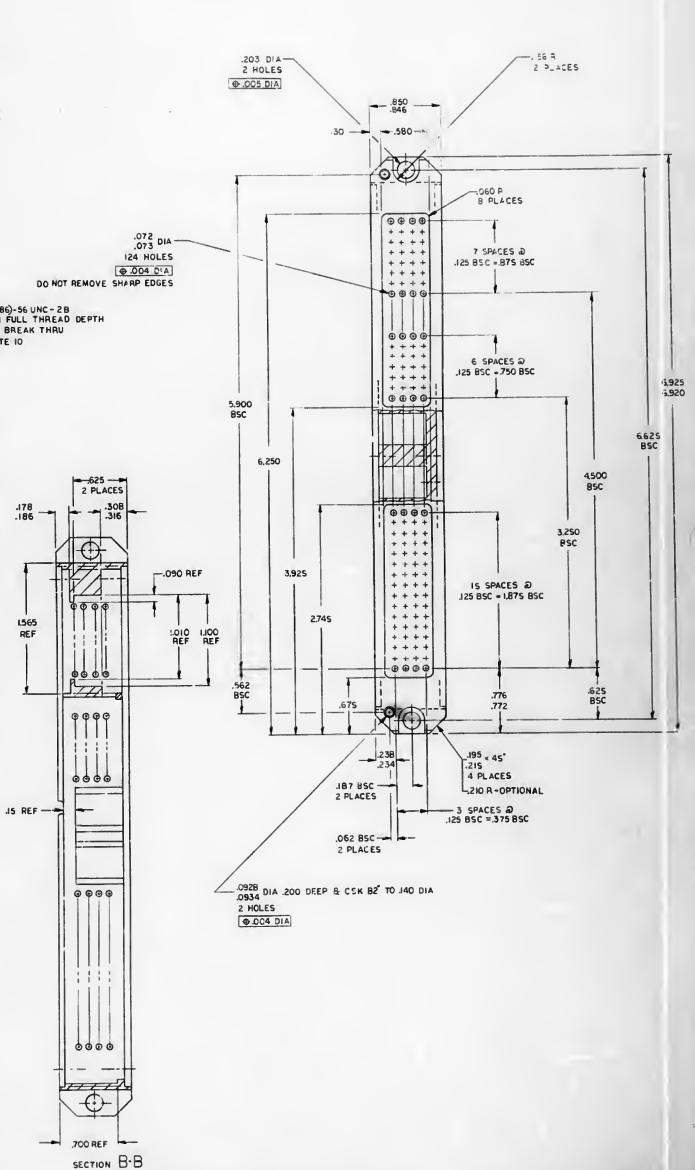
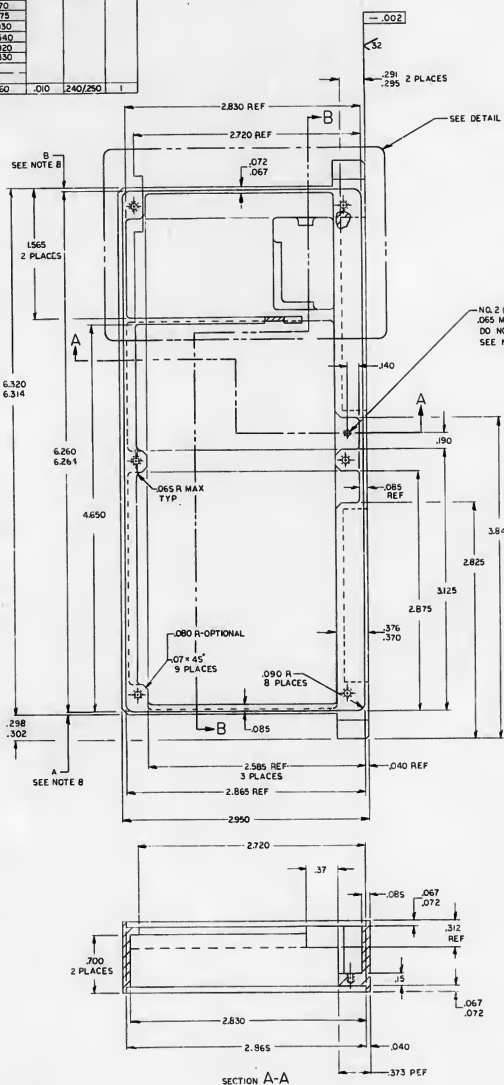
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A1	.000	.455			
A2	.000	.890			
A3	.000	1.325			
A4	.160	1.325			
A5	.000	.000			
A6	.240	.155			
A7	.240	.795			
A8	.240	1.020			
A9	.300	.300			
A10	.400	.300			
A11	.570	1.115			
A12	.625	.320			
A13	.700	1.100			
A14	.750	.270			
A15	.700	1.630			
A16	.750	.300			
A17	.795	.250			
A18	.840	.660			
A19	.910	.000			
A20	.910	.790			
A21	.960	.590			
A22	.960	.730			
A23	1.070	.625			
A24	1.228	.490			
A25	1.228	.525			
A26	1.295	1.355			
B1	.720	.490			
B2	.720	.600			
B3	.720	.710			
B4	.720	.860			
B5	.860	.600			
B6	.860	.530			
B7	.910	.300			
B8	1.020	.300			
B9	1.130	.300			
B10	1.130	.1340			
B11	1.130	.1340			
B12	1.160	.1340			
B13	.840	.1370			
B14	.960	.895			
B15	.960	.965			

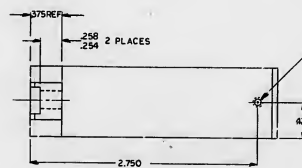
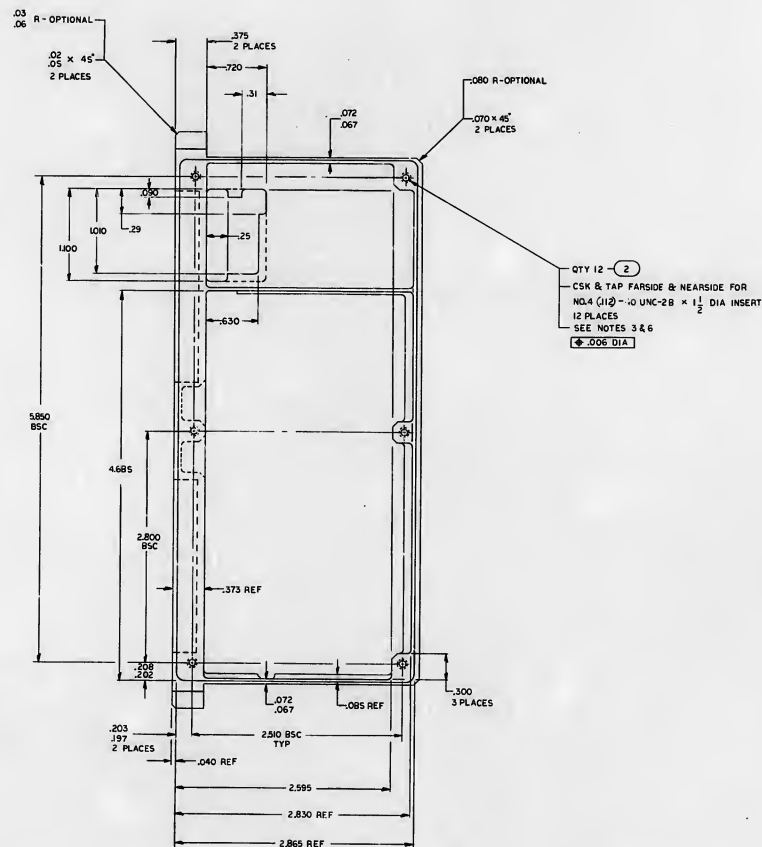
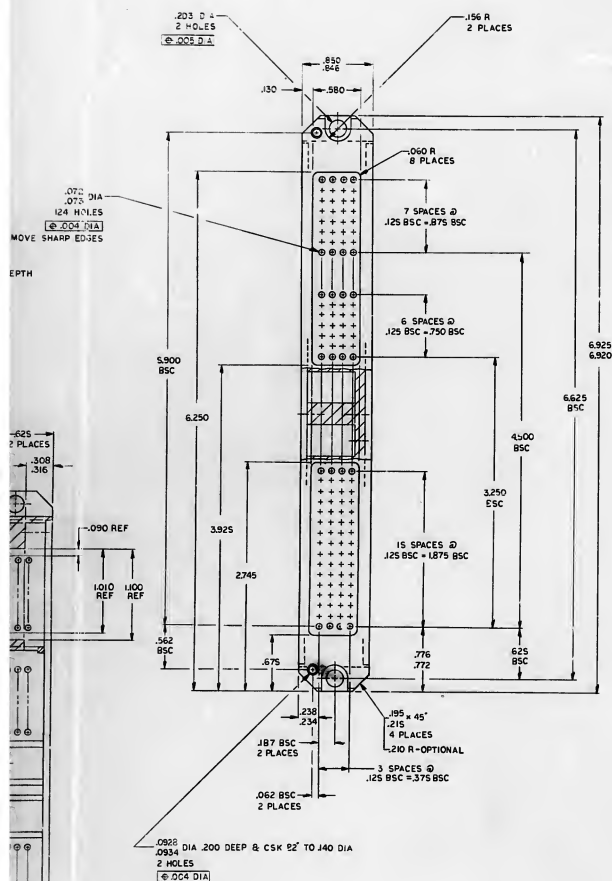
HOLE IDENT	X1 BASIC DIM.	Y1 BASIC DIM.	Ø DIA	HOLE DIA	QTY
B16	.960	1.085			
B17	.960	1.295			
B18	.960	1.405			
B19	.960	1.515			
B20	1.020	.080			
B21	1.020	.260			
B22	1.070	1.350			
C1	.000	.000			
C2	.000	1.490			
C3	.240	.355			
C4	.240	.540			
C5	.400	1.145			
C6	.400	1.370			
D1	.050	.250			
D2	.050	.895			
D3	.050	1.120			
D4	.250	1.520			
D5	.460	.090			
D6	.490	.370			
D7	.490	.695			
D8	.490	.895			
D9	.490	1.130			
D10	.490	.275			
D11	.490	.335			
D12	.490	.335			
D13	.490	.640			
E1	.320	.440			
E2	.320	.890			
E3	.320	1.250			
E4	.300	.030			
E5	.300	.660			
E6	.300	.300			
E7	.440	1.510			
E8	.520	.265			
E9	.520	.380			

HOLE IDENT	X1 BASIC DIM.	Y1 BASIC DIM.	Ø DIA	HOLE DIA	QTY
E10	.625	.330			
E11	.625	.750			
E12	.660	.070			
E13	.660	.390			
E14	.720	.020			
E15	.720	.380			
E16	.840	.860			
E17	.860	.380			
E18	.860	.470			
E19	.860	1.075			
E20	1.020	.030			
E21	1.050	.540			
E22	1.060	.920			
E23	1.175	1.330			
F1	.500	1.360		.240/250	1



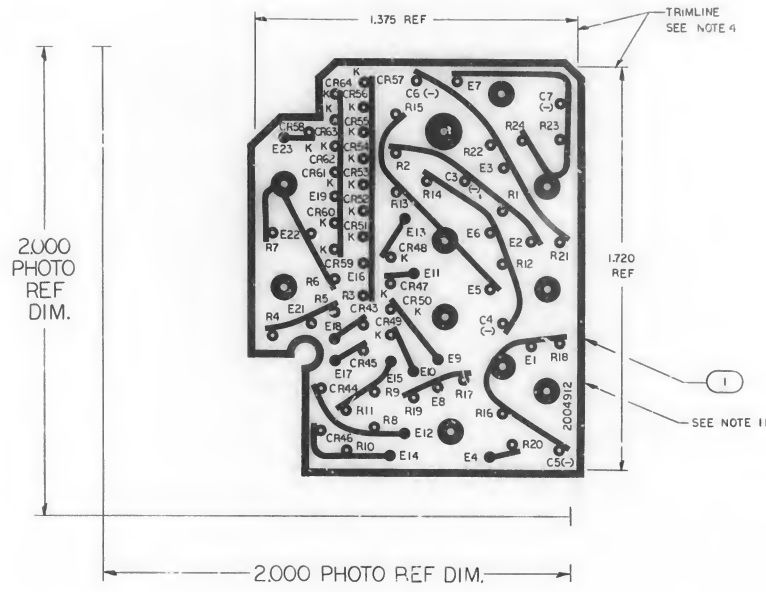
- NOTES
1. MAT'L MAG ZK60-T5 PER QQ-M-31, TEMP T5
 2. ANODIZE PER MIL-M-45202, TYPE II, CLASS D
 3. INSTALL FIND NO. 2 PER ME33646
 4. ALL SURFACES UNLESS OTHERWISE SPECIFIED
 5. UNLESS OTHERWISE SPECIFIED ALL FILLETS & RADII TO BE .010 MAX
 6. COAT THREADS OF FIND NO. 2 WITH MIL-P-8585, COLOR Y
 7. REMOVE BURRS & SHARP EDGES .010/.020 UNLESS OTHERWISE SPECIFIED
 8. DIMENSIONS A & B TO BE EQUAL WITHIN .005
 9. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS, PRESCRIBED BY MIL-D-70327
 10. TAPPED HOLE TO BE FREE OF ANODIZING
 11. IDENTIFY WITH DRAWING NO. & REVISION PER NID002019





14	MS22209-0A15	INSERV, THREADED, SE: LOCKING	2
1	2004910-00	HEADER, HOUSING	1
QTY REQD	PART OR IDENTIFY NO	NONREPLACEMENT OR DESCRIPTION	FINISH
011		LIST OF MATERIALS	
IN- INSTRUMENTATION LAB DIVISION 2004910-00		MANNO SPACRAFT CENTER HOUSTON, TEXAS	
DATE: 6/2/68 BY: J. L. G. (signature) APPROVAL: J. L. G. (signature) APPROVAL: J. L. G. (signature)		HEADER, HOUSING INDICATOR DRIVER MODULE AGC DSKY	
BASIC APPROVAL: J. L. G. (signature)		CODE IDENT NO 80230 J	SIZES 2004910
MIT APPROVAL: J. L. G. (signature)		SCALE 2:1 WT	SHEET 1 OF 1

NOTICE - THIS DRAWING IS UNCLASSIFIED AND CONTAINS NO INFORMATION OF A NATURE THAT REQUIRES PROTECTION FROM DISCLOSURE. IT IS, HOWEVER, THE PROPERTY OF NASA AND IS LOANED TO YOU BY THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. IT IS TO BE RETURNED TO NASA UPON REQUEST AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT PERMISSION IN WRITING FROM NASA, THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSE THAN THAT FOR WHICH IT WAS ORIGINALLY PREPARED. EXCEPT THAT THIS DRAWING MAY BE USED FOR RESEARCH AND DEVELOPMENT PURPOSES.



NOTES

1. MATL: FILM, .006/.008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE
5. BROKEN LINE DENOTES SLEEVING
6. \bullet .040/.050 DIA HOLE
7. \bullet .120/.130 DIA HOLE
8. \bullet .180/.190 DIA HOLE
9. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
10. IDENTIFY WITH DRAWING NO. & REVISION PER NDI002019
11. APPLY FIND NO.2 TO FAR SIDE OF FIND NO.1
12. AR DENOTES AS REQUIRED

AR	1006318	ADHESIVE	2
I	2004912-001	INSULATOR	1
QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
011		LIST OF MATERIALS	
INSTRUMENTATION LAB CAMBRIDGE MASS (021111) DRAWN BY <i>W. J. B. 10/1/61</i> CHECKED BY <i>W. J. B. 10/1/61</i> APPROVAL BY <i>W. J. B. 10/1/61</i> APPROVAL <i>W. J. B. 10/1/61</i>			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS INSULATOR, PHOTO MASTER REAR DECODING CIRCUIT, INDICATOR DRIVER			
2003902	HEAT TREATMENT	NASA APPROVAL <i>W. J. B. 10/1/61</i>	CODE IDENT NO 80230
NEXT ASSY	USED ON	FINAL FINISH	NASA DRAWING NO 2004912
APPLICATION		M * APPROVAL <i>W. J. B. 10/1/61</i>	SCALE 4 / 1
			WT
			SHEET 1 OF 1

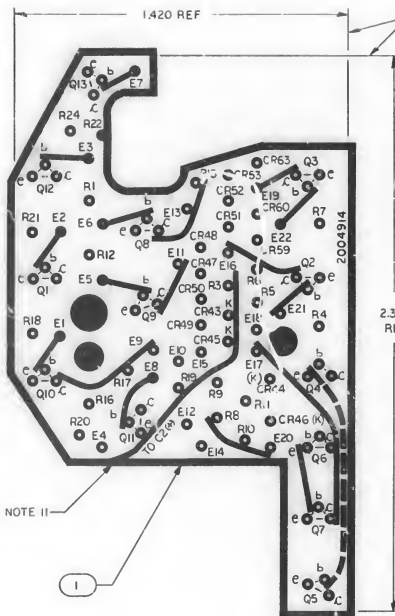
2.000
PHOTO
REF.
DIM.

2.000 PHOTO REF DIM.

SEE NOTE 11

TRIM LINE
SEE NOTE 4

2.37C
REF



NOTES

1. MAT'L: FILM .006/.008 THK SENSITIZED DIMENSIONALLY STABLE PER L-F-340, TYPE IB, CLASS 2, STYLE 1A
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIM LINE
5. BROKEN LINE DENOTES SLEEVING
6. \bullet .040/.050 DIA HOLE
7. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
8. IDENTIFY WITH DRAWING NO. & REVISION PER ND1002019
9. \bullet .180/.190 DIA HOLE
10. \bullet .140/.150 DIA HOLE
11. APPLY FIND NO.2 TO FAR SIDE OF FIND NO.1
12. AR DENOTES AS REQUIRED

MIT INSTRUMENTATION LAB CAMBRIDGE MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>ad</i> DATE <i>11/10/68</i>		INSULATOR, PHOTO MASTER	
CHECKED <i>R. Sedgwick</i> DATE <i>11/10/68</i>		LOWER LEVEL	
APPROVAL <i>G. Sedgwick</i> DATE <i>11/10/68</i>		DECODING CIRCUIT, INDICATOR DRIVER	
APPROVAL <i>John C. Hall</i> DATE <i>11/10/68</i>		NASA DRAWING NO. 2004914	
NASA APPROVAL <i>AW</i> DATE <i>11/10/68</i>		COOL IDENT NO. 80230	SIZE D
MIT APPROVAL <i>W. K. Hoff</i> DATE <i>11/10/68</i>		SCALE 4/1	WT
APPLICATION		SHEET 1 OF 1	

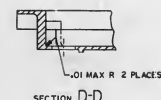
2004914

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
		2004914	



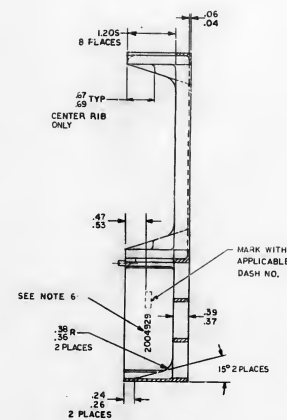
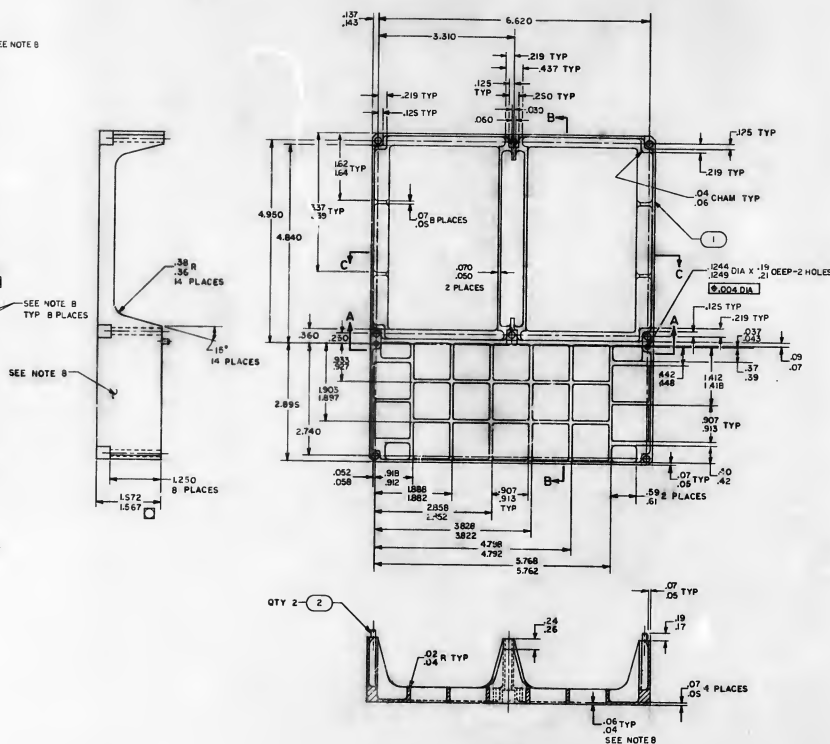
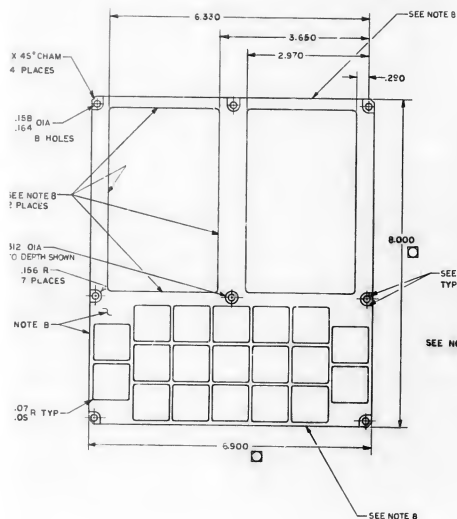
- .240/.260 DIA HOLE

		QTY REQD		PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION		FIN NO.	
		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.				LIST OF MATERIALS			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ F RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ± . ± . ± DO NOT SCALE THIS DRAWING				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		DRAWN <i>E. J. ...</i> <i>WATB</i> CHECKED <i>E. J. ...</i> APPROVED <i>E. J. ...</i> APPROVED <i>E. J. ...</i>				INSULATOR, PHOTOMASTER SPECIAL LEVEL RELAY CIRCUIT, INDICATOR DRIVER			
		MATERIAL:				CODE IDENT NO			
2003910		SEE NOTE 1				SIZE		DRAWING NO	
NEXT ASSY						80230		D 2004917	
APPLICATION						SCALE 2/1		SHEET 1 OF	



8	MS2109F-1S	INSERT, THREADED, SELF LOCKING
2	MS16555-625	PIN, ODWEL
2	MS21209-C0B15	INSERT, THREADED, SELF LOCKING
22	MS21209-C0615	INSERT, THREADED, SELF LOCKING
13	MS21209-C0415	INSERT, THREADED, SELF LOCKING
1	2004910-001	HOUSING, FRONT
QTY REQD	PART OR IDENTIFYING NO	DESCRIPTION OR IDENTIFYING NO

UNIT		UNIT		UNIT	
UNITS/OTHS/PTS IN CH DISPOSITIONS ARE IN INCHES TOLERANCES OR FRACTIONS DECIMALS ANGLES .0005 .01 .0315 .063 DO NOT SCALE THE DRAWING MATERIAL		HUBBELL-TESTATION LAB 10000 10000 10000 DRAWN BY DATE CHECKED BY DATE APPROVED BY DATE PERSON		MAIRED SPEAKERS CENTER HOUSTON, TEXAS HOUSING, FRONT AGC DSKY	
SEE NOTE 1		HASA APPROVAL <i>DATE</i> NOT APPROVAL <i>DATE</i> 7-11-71 ERT APPROVAL		GOOD COPY NO. <i>1</i> JAN 1972 HASA CHANGING NO. <i>2040918</i>	
2003903	USE OF	NONE NONE NONE		80230 J 2040918	
NEXT ASY		APPLICATION SEE NOTE 6		JAN 1972 JAN 1972	

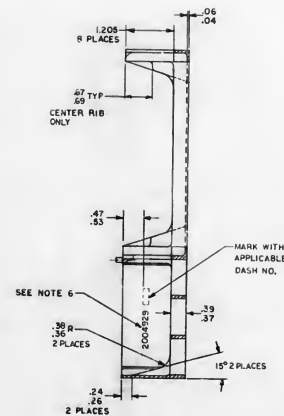
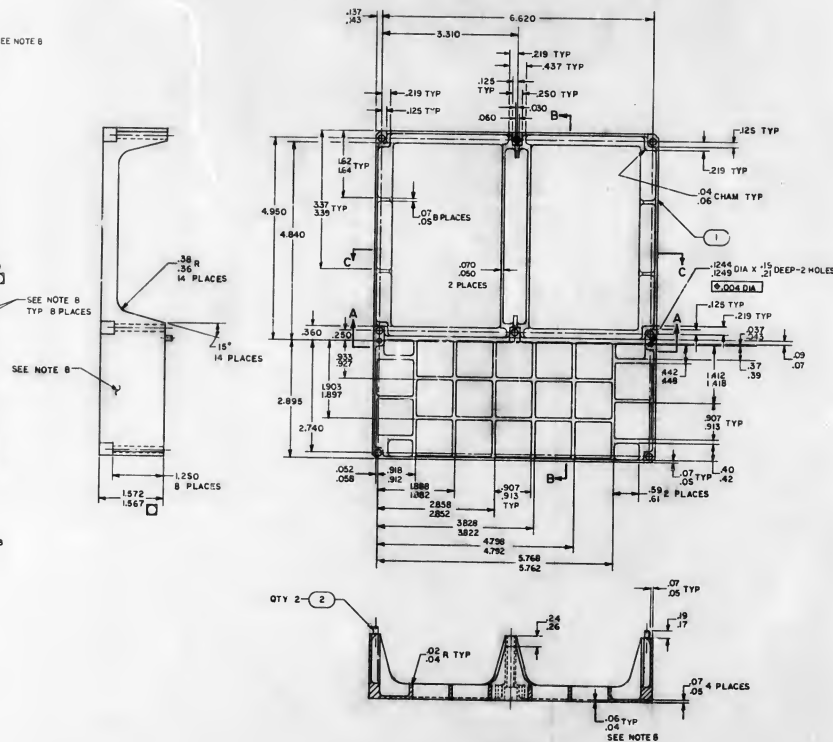
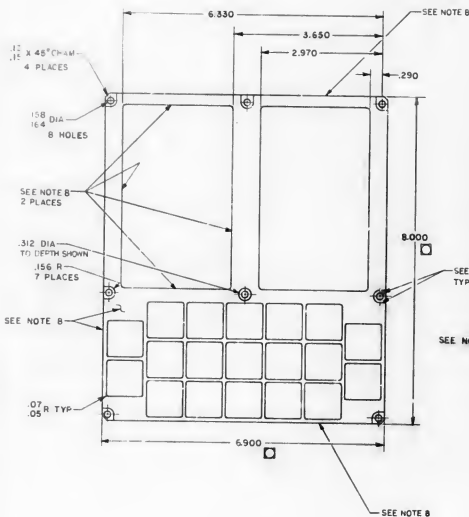


SECTION B-B

SECTION A-A

- OT5
1. MAT: 6061-T6 AL PER QQ-A-250/LITEMP 6
2. REMOVE SURF AND SHARP EDGES .005/.015
3. ALL SURFACES 12/
4. CONTACT RESISTANCE C-5541; TYPE II GRADE C CLASS B
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS
AND RADI TO BE .04 MAX
6. MARK 10/1, 4 HIGH BLACK CHARACTERS
7. NID020/9 AND NID002/12, TYPE II, CLASS 2
US INK (ICD67-10)
8. DIMENSIONS CONTRLLED BY ICD MHOI
9. FINISH INDICATED SURF IS W/ HMOI729-11
10. PRY EPOXY ADHESIVE NID002/10
11. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-C-70327

[illegible]



SECTION B-B

SECTION A-A

1. MATL:G061-T6-AL PER QO-A 50/1,TEMP6
2. REMOVE BURRS AND SHARP EDGES.005/015
3. ALL SURFACES 12/
4. CHROMATE DEP MIL-C-5541, TYPE II, GRADE C, CLASS B
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS
A/FLO RADI) TO BE 0.0318 R MAX
6. MARK: 1/2" HIGH BLACK CHARACTERS PER
MIL-STD-1312 AND MDO12122, TYPE II, CLASS 2
USING INK 1006271-10
7. DIMENSIONS CONTROLLED BY ICD MHO1
8. UNFINISHED SURFACES WITH ICD 00809-1
RED GRAY EPOXY ENAMEL PER 1002279
9. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-D-70327

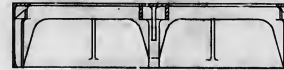
2004929

B

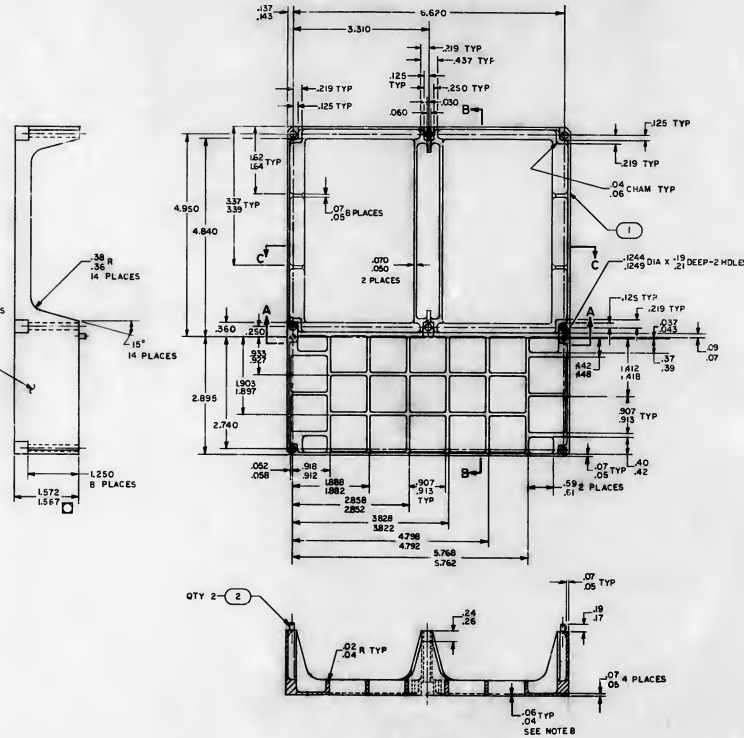
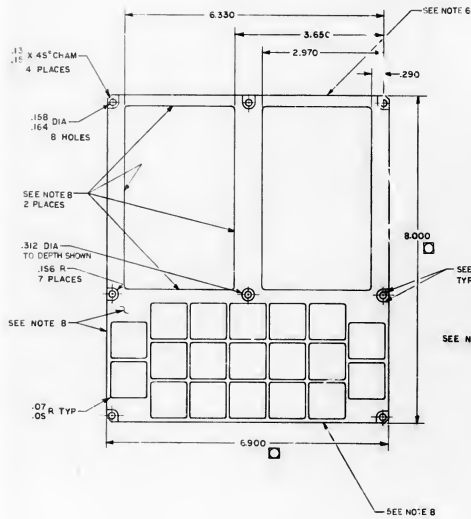
1	MSIC855-08 2004928-001	PH, DOWEL	
2		COVER, FRONT	
3	QTY REQD	PART OR IDENTIFY NO	ROMANIZATION OR DESCRIPTION
4	QTY ISS		FIND NO
5	LIST OF MATERIALS		
6	1-17 INDEPENDENTATION LAM COVER, FRONT	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
7	APPROVAL CHIEF: <i>[Signature]</i> APPROVAL: <i>[Signature]</i> APPROVAL: <i>[Signature]</i>	COVER, FRONT AGC SS20	
8	ISS APPROVAL: <i>[Signature]</i>	CODE IDENT NO 802309	SIZE J
9	ISS APPROVAL: <i>[Signature]</i>	DATA 2004929	DATA IDENT NO 2004929

COVER, FRONT
AGC DSKY

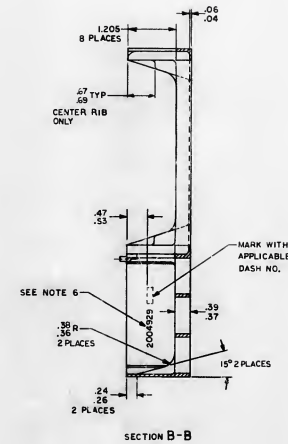
2004929



SECTION C-C



SECTION A-A



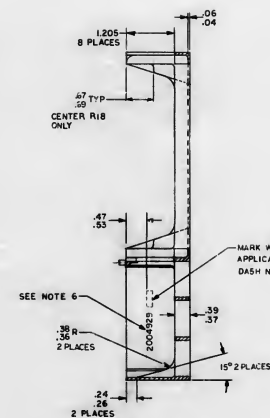
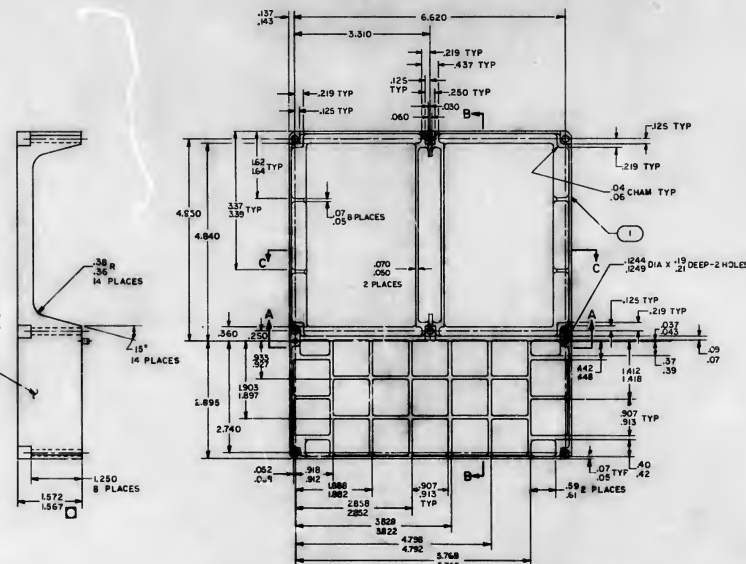
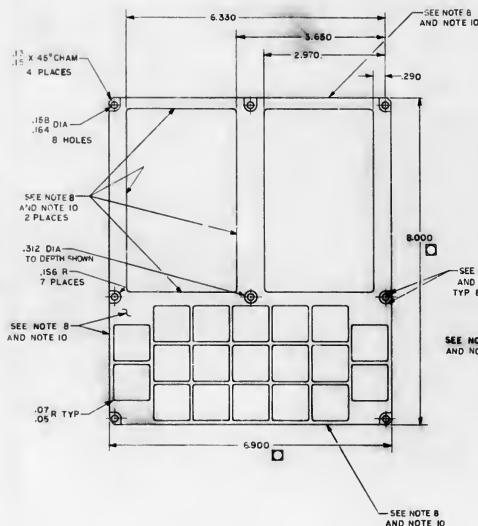
SECTION B-E

NOTES

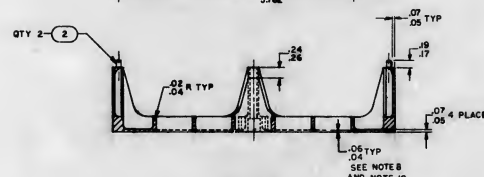
1. JATL-6061-26-AL PER 70A-250/101TEMP6
2. REMOVE BURRS AND CHAP EDGES.05/015
3. ALL SURFACES 125
4. CHROMATE PER MIL-C-5541,TYPED,APAGE,C,CLASS W
5. UNLESS OTHERWISE SPECIFIED,ALL FILLETS AND RADI TO BE .05 OR MAX
6. MARK 3/4" HIGH BLACK CHARACTERS PER DDG002015 AND DDG012122,TYPE II,CLASS 2
7. USING INK 106271-0
8. DIMENSIONS UNLESS OTHERWISE CONTROLLED BY 1CD MHQ-1 D305 -116
9. FINISH ALL EXPOSED SURFACES WITH 100809.01
10. RED GRAY EPOXY ENAMEL PER 100297.19
11. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MS16555-625	PIN, DOWEL
2004928-001	COVER, FRONT
QTY REQD	UNIT OR IDENTIFYING NO
	NONE CLARIFY OR REDESCRIPTION
QTY	UNIT OF MATERIALS
BUY INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY <i>W. J. ...</i> CHECKED BY <i>...</i> APPROVED BY <i>...</i> APPROVED BY <i>...</i>	COVER, FRONT AGC DSKY
NASA APPROVAL <i>(11/18/75)</i> APPROVAL <i>...</i> TEST APPROVAL <i>...</i>	COORDINATE NO. <i>80230</i> SIZE <i>J</i> NASA DRAWING NO. <i>2004929</i>
TEST APPROVAL <i>...</i> TEST APPROVAL <i>...</i>	SCALE <i>1/1</i> NET <i>...</i>

MASTU



SECTION B-E



SECTION A-A

- NOTES
1. MATL-0607-6-PL PER QQ-A-250/HTDTEMP
 2. REMOVE BURRS, AND SHARP EDGES/DOES/01
 3. ALL SURFACES 125
 4. CHROMATE PER MIL-C541,TYPE3,CLASS B
 5. UNLESS OTHERWISE SPECIFIED ALL FILLETS
 6. RADI TO BE MAX 0.005
 7. MARK 1/4" HIGH BLACK CHARACTERS PER
 8. QQ-C002/9 AND QQD02122,TYPE II,CLASS 2
 9. DIMENSIONS CONTROLLED BY ICD 0018
 10. DIMENSIONS INDICATED SURFACES WITH 000B09 -
 11. GRAY EPOXY ENDS WITH 000B09 PER QQ-C002/9
 12. INTERPRET DRAWING IN ACCORDANCE WITH
 13. STANDARDS PRESCRIBED BY MIL-D-70327
 14. FINISH POLISHED SURFACES PER QQ-C00272
- END

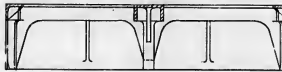
2	2	MS16555-625	PIN, DOWEL
1	1	2004929-001	COVER, FRONT
QTY REQD	QTY REQD	PART OR IDENTIFYING NO	NORMEN'SATURE OR DESCRIPTION
021	011		LIST OF MATERIALS

12/1 13/1 14/1 15/1 16/1 17/1 18/1 19/1 20/1 21/1 22/1 23/1 24/1 25/1 26/1 27/1 28/1 29/1 30/1 31/1 32/1 33/1 34/1 35/1 36/1 37/1 38/1 39/1 40/1 41/1 42/1 43/1 44/1 45/1 46/1 47/1 48/1 49/1 50/1 51/1 52/1 53/1 54/1 55/1 56/1 57/1 58/1 59/1 60/1 61/1 62/1 63/1 64/1 65/1 66/1 67/1 68/1 69/1 70/1 71/1 72/1 73/1 74/1 75/1 76/1 77/1 78/1 79/1 80/1 81/1 82/1 83/1 84/1 85/1 86/1 87/1 88/1 89/1 90/1 91/1 92/1 93/1 94/1 95/1 96/1 97/1 98/1 99/1 100/1 101/1 102/1 103/1 104/1 105/1 106/1 107/1 108/1 109/1 110/1 111/1 112/1 113/1 114/1 115/1 116/1 117/1 118/1 119/1 120/1 121/1 122/1 123/1 124/1 125/1 126/1 127/1 128/1 129/1 130/1 131/1 132/1 133/1 134/1 135/1 136/1 137/1 138/1 139/1 140/1 141/1 142/1 143/1 144/1 145/1 146/1 147/1 148/1 149/1 150/1 151/1 152/1 153/1 154/1 155/1 156/1 157/1 158/1 159/1 160/1 161/1 162/1 163/1 164/1 165/1 166/1 167/1 168/1 169/1 170/1 171/1 172/1 173/1 174/1 175/1 176/1 177/1 178/1 179/1 180/1 181/1 182/1 183/1 184/1 185/1 186/1 187/1 188/1 189/1 190/1 191/1 192/1 193/1 194/1 195/1 196/1 197/1 198/1 199/1 200/1 201/1 202/1 203/1 204/1 205/1 206/1 207/1 208/1 209/1 210/1 211/1 212/1 213/1 214/1 215/1 216/1 217/1 218/1 219/1 220/1 221/1 222/1 223/1 224/1 225/1 226/1 227/1 228/1 229/1 230/1 231/1 232/1 233/1 234/1 235/1 236/1 237/1 238/1 239/1 240/1 241/1 242/1 243/1 244/1 245/1 246/1 247/1 248/1 249/1 250/1 251/1 252/1 253/1 254/1 255/1 256/1 257/1 258/1 259/1 260/1 261/1 262/1 263/1 264/1 265/1 266/1 267/1 268/1 269/1 270/1 271/1 272/1 273/1 274/1 275/1 276/1 277/1 278/1 279/1 280/1 281/1 282/1 283/1 284/1 285/1 286/1 287/1 288/1 289/1 290/1 291/1 292/1 293/1 294/1 295/1 296/1 297/1 298/1 299/1 300/1 301/1 302/1 303/1 304/1 305/1 306/1 307/1 308/1 309/1 310/1 311/1 312/1 313/1 314/1 315/1 316/1 317/1 318/1 319/1 320/1 321/1 322/1 323/1 324/1 325/1 326/1 327/1 328/1 329/1 330/1 331/1 332/1 333/1 334/1 335/1 336/1 337/1 338/1 339/1 340/1 341/1 342/1 343/1 344/1 345/1 346/1 347/1 348/1 349/1 350/1 351/1 352/1 353/1 354/1 355/1 356/1 357/1 358/1 359/1 360/1 361/1 362/1 363/1 364/1 365/1 366/1 367/1 368/1 369/1 370/1 371/1 372/1 373/1 374/1 375/1 376/1 377/1 378/1 379/1 380/1 381/1 382/1 383/1 384/1 385/1 386/1 387/1 388/1 389/1 390/1 391/1 392/1 393/1 394/1 395/1 396/1 397/1 398/1 399/1 400/1 401/1 402/1 403/1 404/1 405/1 406/1 407/1 408/1 409/1 410/1 411/1 412/1 413/1 414/1 415/1 416/1 417/1 418/1 419/1 420/1 421/1 422/1 423/1 424/1 425/1 426/1 427/1 428/1 	
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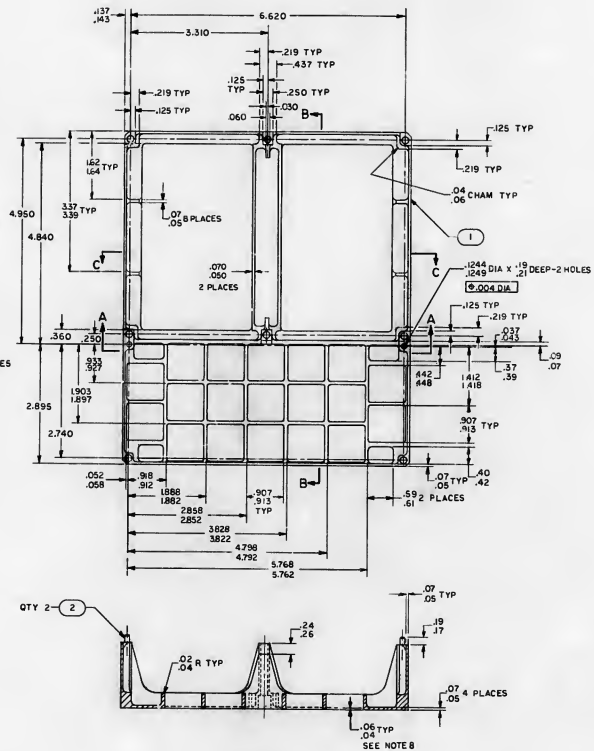
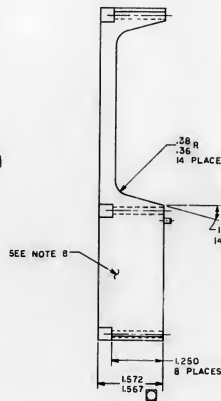
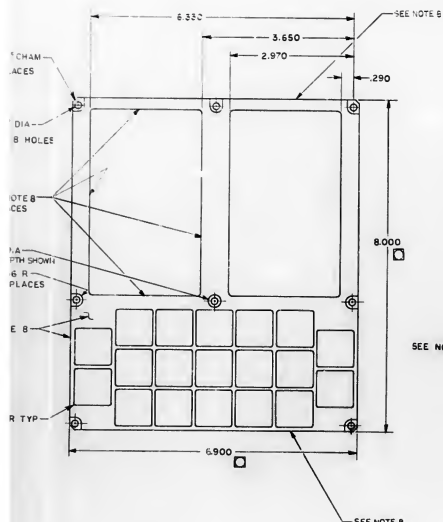


- NOTES
1. MAT'L:6061-T6 AL PER QQ-A-250/11,TEMP6
 2. REMOVE BURRS AND SHARP EDGES,005/OIS
 3. ALL SURFACES \sqrt{Ra}
 4. TENSILE STRENGTH \geq 55401,TEMP,GRADE C,CLASS B
 5. UNLESS OTHERWISE SPECIFIED ALL FILETS AND RADIII TO BE .03R MAX
 6. MARK 102/14 HIGH BLOCK CHARACTERS PER NID002018 AND NID00212, TYPE II, CLASS 2 USING INC 1006271-10
 7. ☐ DIMENSIONS CONTROLLED BY IDC MH01
 8. ☐ RENT INDICATED SURFACES WITH 100729-11
 9. ☐ GRANT EPOXY ADHESIVE PER NID00210
 10. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

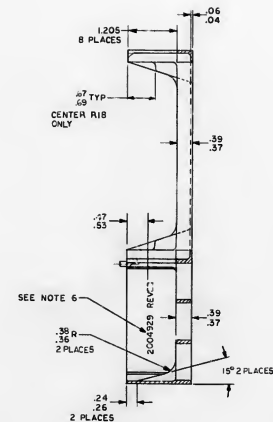
[illegible]



SECTION C-C



SECTION A-A



SECTION B-B

1. MAT.-5061-T6-AL PER QQ-A-250/11,TEMP 6
2. REMOVE BURRS AND SHARP EDGES,DOGS,OIS
ALL SURFACES 125
3. CHROMATE PER MIL-C-5541,TYPE II,CLASS B
UNLESS OTHERWISE SPECIFIED ALL FILLETS
AND RADI TO BE .09 MAX
4. MAXIMUM 1/8" HIGH FLAKK CHARACTERS PER
ND1002010 AND ND100212,TYPE II,CLASS 2
USIS INK 1006271-0
5. DIMENSIONS CONTROLLED BY ICD MHOI
6. PAINT INDICATED SURFACES WITH 1010725-2
7. GRAY EPOXY ENAMEL PER ND100210
8. INTERPRET DRAWING IN ACCORDANCE WITH
S UNARDS PRESCRIBED BY MIL-DT-70327

2	MS16555-625	PIH, DOWEL	2
1	200A929-010	COVER, FRONT	
QTY	PART OF	NOMENCLATURE OR DESCRIPTION	FINO NO
MOQ	ISSUING OFFICE		
011		LIST OF MATERIALS	
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
HONOLULU, HAWAII		HOUSTON, TEXAS	
CHANGED <u>10/10/64</u> <u>10/10/64</u> CHECKED <u>10/10/64</u> <u>10/10/64</u> APPROVAL <u>10/10/64</u> <u>10/10/64</u> APPROVAL <u>10/10/64</u> <u>10/10/64</u>		COVER, FRONT	
		AGC DSKY	
NASA APPROVAL <u>10/10/64</u> <u>10/10/64</u>		LOCK DOCKET NO	SIZE
		80230 J	1
NASA APPROVAL <u>10/10/64</u> <u>10/10/64</u>		SCALE 1:1	NASA DRAWING NO
		200A929	
18		INT	SHEET 1 OF 1